

Algebra I Lesson #6 Unit 10
Class Worksheet #6
For Worksheets #10 - #12

Dividing Monomials

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There is a well known relationship between multiplication and division.

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$$3 \cdot 4 = 12$$

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$$3 \cdot 4 = 12 \quad \rightarrow \quad 12 \div 4 = 3$$

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$$3 \cdot 4 = 12 \begin{array}{l} \nearrow 12 \div 4 = 3 \\ \searrow 12 \div 3 = 4 \end{array}$$

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Consider powers of x .

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$$x^2 \cdot x^5 = x^7$$

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Rule: $x^a \div x^b =$

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Rule: $x^a \div x^b = x^{a-b}$

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Rule: $x^a \div x^b = x^{a-b}$

Clearly, x can not equal 0 since division by 0 is undefined.

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If you apply the rule, you get x^0 .

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Rule: If $x \neq 0$, then $x^a \div x^b = x^{a-b}$

What if $a = b$? Consider this example.

$$x^3 \div x^3 =$$

If you apply the rule, you get x^0 .

You also know that any number divided by itself is 1.

Dividing Monomials

Rule: If $x \neq 0$, then $x^a \div x^b = x^{a-b}$

What if $a = b$? Consider this example.

$$x^3 \div x^3 =$$

If you apply the rule, you get x^0 .

**You also know that any number divided by itself is 1.
(The exception is $0 \div 0$.)**

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What if $a = b$? Consider this example.

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If you apply the rule, you get x^0 .

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This is undefined.

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Rule: If $x \neq 0$, then $x^a \div x^b = x^{a-b}$

What if $a = b$? Consider this example.

$$x^3 \div x^3 =$$

If you apply the rule, you get x^0 .

You also know that any number divided by itself is 1.

(The exception is $0 \div 0$.)

Therefore, if $x \neq 0$, then $x^0 = 1$.

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$$(4x^3)(5x^2) =$$

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Consider this multiplication problem.

$$(4x^3)(5x^2) = 20x^5$$

Notice that you **multiply the coefficients** and **add the exponents**.

Here is a related division problem.

$$20x^5 \div 5x^2 = 4x^3$$

Notice that you **divide the coefficients** and **subtract the exponents**.

We assume that $x \neq 0$, since division by 0 is undefined.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

1. $(9x^4) \div (3x^3) = \underline{\hspace{2cm}}$

2. $(-28x^6) \div (7x^2) = \underline{\hspace{2cm}}$

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1. $(9x^4) \div (3x^3) = \underline{\hspace{2cm}}$

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When you are dividing monomials,
divide the coefficients and subtract the exponents.

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Perform the indicated operations. Express your answers in simplest form.

1. $(9x^4) \div (3x^3) = \underline{\quad 3 \quad}$

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Perform the indicated operations. Express your answers in simplest form.

1. $(9x^4) \div (3x^3) = \underline{3x^1}$

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Perform the indicated operations. Express your answers in simplest form.

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Consider this multiplication problem.

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$$x^1 = x$$

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$$(12x^4 - 9x^3 + 18x^2) \div 3x^2 = 4x^2 - 3x + 6x^0$$



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Here is a related division problem.

$$(12x^4 - 9x^3 + 18x^2) \div 3x^2 = 4x^2 - 3x + 6x^0$$

Remember, if $x \neq 0$, then $x^0 = 1$.

When you divide a polynomial by a monomial, you divide each term of the polynomial by the monomial.

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Here is a related division problem.

$$(12x^4 - 9x^3 + 18x^2) \div 3x^2 = 4x^2 - 3x + 6 \cdot 1$$

Remember, if $x \neq 0$, then $x^0 = 1$.

When you divide a polynomial by a monomial, you divide each term of the polynomial by the monomial.

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Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

3. $(15x^3 - 10x^2 + 25x) \div (5x) =$ _____

4. $(54x^4 + 36x^3 - 27x^2) \div (9x^2) =$ _____

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

3. $(15x^3 - 10x^2 + 25x) \div (5x) = \underline{\hspace{2cm}}$

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When you divide a polynomial by a monomial, you divide each term of the polynomial by the monomial.

When you are dividing monomials, **divide the coefficients and subtract the exponents.**

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Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

$$3. \quad (15x^3 - 10x^2 + 25x) \div (5x^1) = \underline{3x^2 - 2x}$$



$$4. \quad (54x^4 + 36x^3 - 27x^2) \div (9x^2) = \underline{\hspace{2cm}}$$

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$x^0 = 1$

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5. $(x^4 - 2x^3 + 3x^2) \div (x^2) = \underline{\hspace{2cm}}$

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6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

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Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

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Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

$$2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9}$$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

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$$2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9}$$

Step1: divide:

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Step1: divide:

Divide the first term of the dividend

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$$2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9}$$

Step1: divide:

Divide the first term of the dividend by the first term of the divisor.

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Step 1: divide:

$$\begin{array}{r} 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \end{array}$$

Divide the first term of the dividend by the first term of the divisor.

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Step1: divide: $2x^3$

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Divide the first term of the dividend by the first term of the divisor.

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Step1: divide: $2x^3 \div 2x$

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Divide the first term of the dividend by the first term of the divisor.

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Step1: divide: $2x^3 \div 2x = x^2$

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Step2:

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Step1: divide: $2x^3 \div 2x = x^2$

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Step1: divide: $2x^3 \div 2x = x^2$

Step2: multiply:

Multiply the answer you got in step 1

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Step1: divide: $2x^3 \div 2x = x^2$

Step2: multiply:

Multiply the answer you got in step 1 by the divisor.

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Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} \overline{) 2x^3 + 13x^2 + 21x + 9} \\ 2x^3 + 3x^2 \\ \hline + 10x^2 + 21x + 9 \end{array}$$

Step1: divide: $2x^3 \div 2x = x^2$

Step2: multiply: $x^2(2x + 3) = 2x^3 + 3x^2$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} \overline{) 2x^3 + 13x^2 + 21x + 9} \\ 2x^3 + 3x^2 \\ \hline 10x^2 + 21x + 9 \end{array}$$

Step1: divide: $2x^3 \div 2x = x^2$

Step2: multiply: $x^2(2x + 3) = 2x^3 + 3x^2$

Step 3:

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

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$$\begin{array}{r} \overline{) 2x^3 + 13x^2 + 21x + 9} \\ 2x^3 + 3x^2 \\ \hline 10x^2 + 21x + 9 \end{array}$$

Step1: divide: $2x^3 \div 2x = x^2$

Step2: multiply: $x^2(2x + 3) = 2x^3 + 3x^2$

Step 3: subtract

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^2 \\ \hline 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \end{array}$$

Step1: divide: $2x^3 \div 2x = x^2$

Step2: multiply: $x^2(2x + 3) = 2x^3 + 3x^2$

Step 3: subtract

Subtract the answer from step 2

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

$$2x + 3 \overline{) \begin{array}{r} x^2 \\ 2x^3 + 13x^2 + 21x + 9 \\ \underline{2x^3 + 3x^2} \end{array}}$$

Step1: divide: $2x^3 \div 2x = x^2$

Step2: multiply: $x^2(2x + 3) = 2x^3 + 3x^2$

Step 3: subtract

Subtract the answer from step 2

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

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$$2x + 3 \overline{) \begin{array}{r} x^2 \\ 2x^3 + 13x^2 + 21x + 9 \\ \underline{2x^3 + 3x^2} \end{array}}$$

Step1: divide: $2x^3 \div 2x = x^2$

Step2: multiply: $x^2(2x + 3) = 2x^3 + 3x^2$

Step 3: subtract

Subtract the answer from step 2 from the original dividend.

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

$$2x + 3 \overline{) \begin{array}{r} x^2 \\ 2x^3 + 13x^2 + 21x + 9 \\ \underline{2x^3 + 3x^2} \end{array}}$$

Step1: divide: $2x^3 \div 2x = x^2$

Step2: multiply: $x^2(2x + 3) = 2x^3 + 3x^2$

Step 3: subtract

Subtract the answer from step 2 from the original dividend.

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

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$$\begin{array}{r} x^2 \\ 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \end{array}$$

Step1: divide: $2x^3 \div 2x = x^2$

Step2: multiply: $x^2(2x + 3) = 2x^3 + 3x^2$

Step 3: subtract

Subtract the answer from step 2 from the original dividend.

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

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$$\begin{array}{r} x^2 \\ 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 \end{array}$$

Step1: divide: $2x^3 \div 2x = x^2$

Step2: multiply: $x^2(2x + 3) = 2x^3 + 3x^2$

Step 3: subtract

Subtract the answer from step 2 from the original dividend.

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

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Perform the indicated operations. Express your answers in simplest form.

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Step 1: divide: $2x^3 \div 2x = x^2$

Step 2: multiply: $x^2(2x + 3) = 2x^3 + 3x^2$

Step 3: subtract

Subtract the answer from step 2 from the original dividend.

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$$\begin{array}{r} x^2 \\ 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \end{array}$$

Step1: divide: $2x^3 \div 2x = x^2$

Step2: multiply: $x^2(2x + 3) = 2x^3 + 3x^2$

Step 3: subtract

Subtract the answer from step 2 from the original dividend.

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

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$$\begin{array}{r} \overline{) 2x^3 + 13x^2 + 21x + 9} \\ 2x^3 + 3x^2 \\ \hline 10x^2 + 21x + 9 \end{array}$$

Step1: divide: $2x^3 \div 2x = x^2$

Step2: multiply: $x^2(2x + 3) = 2x^3 + 3x^2$

Step 3: subtract

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$$\begin{array}{r} \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

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$$\begin{array}{r} \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Repeat the process.

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} 2x + 3 \overline{) \begin{array}{r} x^2 \\ 2x^3 + 13x^2 + 21x + 9 \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \end{array}} \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Repeat the process.

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

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$$\begin{array}{r} \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \end{array}$$

Step1: divide: $10x^2$

Step2: multiply:

Step 3: subtract

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

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$$\begin{array}{r} \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \end{array}$$

Step1: divide: $10x^2 \div 2x$

Step2: multiply:

Step 3: subtract

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

Step1: divide: $10x^2 \div 2x = 5x$

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \end{array}$$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

Step1: divide: $10x^2 \div 2x = 5x$

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} x^2 + 5x \\ \hline 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \end{array}$$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

Step 1: divide: $10x^2 \div 2x = 5x$

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \end{array}$$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

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Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^2 + 5x \\ \hline 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \end{array}$$

Step1: divide: $10x^2 \div 2x = 5x$

Step2: multiply: $5x(2x + 3)$

Step 3: subtract

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

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$$\begin{array}{r} x^2 + 5x \\ \hline 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \end{array}$$

Step1: divide: $10x^2 \div 2x = 5x$

Step2: multiply: $5x(2x + 3) = 10x^2$

Step 3: subtract

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

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$$\begin{array}{r} x^2 + 5x \\ \hline 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \end{array}$$

Step1: divide: $10x^2 \div 2x = 5x$

Step2: multiply: $5x(2x + 3) = 10x^2 + 15x$

Step 3: subtract

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^2 + 5x \\ \hline 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \end{array}$$

Step1: divide: $10x^2 \div 2x = 5x$

Step2: multiply: $5x(2x + 3) = 10x^2 + 15x$

Step 3: subtract

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

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Perform the indicated operations. Express your answers in simplest form.

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$$\begin{array}{r} x^2 + 5x \\ \hline 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \end{array}$$

Step1: divide: $10x^2 \div 2x = 5x$

Step2: multiply: $5x(2x + 3) = 10x^2 + 15x$

Step 3: subtract

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$$\begin{array}{r} x^2 + 5x \\ \hline 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \end{array}$$

Step1: divide: $10x^2 \div 2x = 5x$

Step2: multiply: $5x(2x + 3) = 10x^2 + 15x$

Step 3: subtract

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

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$$\begin{array}{r} x^2 + 5x \\ \hline 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \end{array}$$

Step1: divide: $10x^2 \div 2x = 5x$

Step2: multiply: $5x(2x + 3) = 10x^2 + 15x$

$$\begin{array}{r} 10x^2 + 21x + 9 \\ 10x^2 + 15x \end{array}$$

Step 3: subtract

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^2 + 5x \\ \hline 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \end{array}$$

Step1: divide: $10x^2 \div 2x = 5x$

Step2: multiply: $5x(2x + 3) = 10x^2 + 15x$

$$\begin{array}{r} 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \end{array}$$

Step 3: subtract

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^2 + 5x \\ \hline 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \end{array}$$

Step1: divide: $10x^2 \div 2x = 5x$

Step2: multiply: $5x(2x + 3) = 10x^2 + 15x$

$$\begin{array}{r} 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x \end{array}$$

Step 3: subtract

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^2 + 5x \\ \hline 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \end{array}$$

Step1: divide: $10x^2 \div 2x = 5x$

Step2: multiply: $5x(2x + 3) = 10x^2 + 15x$

$$\begin{array}{r} 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \end{array}$$

Step 3: subtract

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

		$x^2 + 5x$
	$2x + 3$	$2x^3 + 13x^2 + 21x + 9$
Step1: divide: $10x^2 \div 2x = 5x$		$2x^3 + 3x^2$
		<hr/>
Step2: multiply: $5x(2x + 3) = 10x^2 + 15x$		$10x^2 + 21x + 9$
		$10x^2 + 15x$
Step 3: subtract		<hr/>
		$6x + 9$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{x^2 + 5x} \\ 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \end{array}$$

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Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \quad \quad \quad x^2 + 5x \\ \hline 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \end{array}$$

Repeat the process.

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

Step1: divide: $6x \div 2x$

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \end{array}$$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

Step1: divide: $6x \div 2x = 3$

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \end{array}$$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

Step1: divide: $6x \div 2x = 3$

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{) } \\ \underline{2x^3 + 3x^2} \\ \\ \underline{10x^2 + 21x + 9} \\ \underline{10x^2 + 15x} \\ \underline{6x + 9} \end{array}$$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

Step 1: divide: $6x \div 2x = 3$

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \end{array}$$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

Step 1: divide: $6x \div 2x = 3$

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \quad \quad \quad x^2 + 5x + 3 \\ \hline 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \end{array}$$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} \overline{) } \\ \underline{x^2 + 5x + 3} \\ 2x^3 + 13x^2 + 21x + 9 \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \end{array}$$

Step1: divide: $6x \div 2x = 3$

Step2: multiply: 3

Step 3: subtract

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^2 + 5x + 3 \\ \hline 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \end{array}$$

Step1: divide: $6x \div 2x = 3$

Step2: multiply: $3(2x + 3) =$

Step 3: subtract

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

Step1: divide: $6x \div 2x = 3$

Step2: multiply: $3(2x + 3) = 6x$

Step 3: subtract

$$\begin{array}{r} x^2 + 5x + 3 \\ \hline 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \end{array}$$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) } \\ \underline{2x^3 + 3x^2} \\ \underline{10x^2 + 21x + 9} \\ \underline{10x^2 + 15x} \\ \underline{6x + 9} \end{array}$$

Step1: divide: $6x \div 2x = 3$

Step2: multiply: $3(2x + 3) = 6x + 9$

Step 3: subtract

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

Step 1: divide: $6x \div 2x = 3$

Step 2: multiply: $3(2x + 3) = 6x + 9$

Step 3: subtract

$$\begin{array}{r} \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \\ \underline{6x + 9} \\ 0 \end{array}$$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

Step1: divide: $6x \div 2x = 3$

Step2: multiply: $3(2x + 3) = 6x + 9$

Step 3: subtract

$$\begin{array}{r} \overline{x^2 + 5x + 3} \\ 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \\ \underline{6x + 9} \\ 0 \end{array}$$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

Step1: divide: $6x \div 2x = 3$

Step2: multiply: $3(2x + 3) = 6x + 9$

Step 3: subtract

$$\begin{array}{r} \overline{x^2 + 5x + 3} \\ 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \\ \underline{6x + 9} \\ 0 \end{array}$$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

Step1: divide: $6x \div 2x = 3$

Step2: multiply: $3(2x + 3) = 6x + 9$

Step 3: subtract

$$\begin{array}{r} \overline{x^2 + 5x + 3} \\ 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \\ \underline{6x + 9} \\ 0 \end{array}$$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) =$ _____

Step1: divide: $6x \div 2x = 3$

Step2: multiply: $3(2x + 3) = 6x + 9$

Step 3: subtract

$$\begin{array}{r} \overline{x^2 + 5x + 3} \\ 2x + 3 \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \\ \underline{6x + 9} \\ 0 \end{array}$$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{\hspace{2cm}}$

Step 1: divide: $6x \div 2x = 3$

Step 2: multiply: $3(2x + 3) = 6x + 9$

Step 3: subtract

$$\begin{array}{r} \overline{) } \\ \underline{2x^3 + 3x^2} \\ \\ \underline{10x^2 + 21x + 9} \\ \underline{10x^2 + 15x} \\ \underline{6x + 9} \\ \underline{6x + 9} \\ \underline{0} \end{array}$$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{x^2 + 5x + 3}$

Step1: divide: $6x \div 2x = 3$

Step2: multiply: $3(2x + 3) = 6x + 9$

Step 3: subtract

$$\begin{array}{r} \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \\ \underline{6x + 9} \\ 0 \end{array}$$

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

6. $(2x^3 + 13x^2 + 21x + 9) \div (2x + 3) = \underline{x^2 + 5x + 3}$

$$\begin{array}{r} \overline{) 2x^3 + 13x^2 + 21x + 9} \\ \underline{2x^3 + 3x^2} \\ 10x^2 + 21x + 9 \\ \underline{10x^2 + 15x} \\ 6x + 9 \\ \underline{6x + 9} \\ 0 \end{array}$$

Step1: divide: $6x \div 2x = 3$

Step2: multiply: $3(2x + 3) = 6x + 9$

Step 3: subtract

Dividing a polynomial by a polynomial is similar to long division with numbers. We will illustrate the process here.

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{4cm}}$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6}$$

$2x^2$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$x^2 + 2x - 3 \overline{) \begin{array}{r} 2x^2 \\ 2x^4 + 5x^3 - 6x^2 - 7x + 6 \end{array}}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$x^2 + 2x - 3 \overline{) \begin{array}{r} 2x^4 + 5x^3 - 6x^2 - 7x + 6 \\ \end{array}}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4} \\ - 7x + 6 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3} \\ x^3 - 6x^2 - 7x + 6 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 - 6x^2 - 7x + 6 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 - 6x^2 - 7x + 6 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 - 6x^2 - 7x + 6 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{2x^2} \\ x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} 2x^2 \\ \hline x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} \overline{2x^2} \\ x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 - 6x^2 - 7x + 6 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{3cm}}$

$$\begin{array}{r} x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 - 7x + 6 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} \overline{2x^2} \\ x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 - 7x + 6 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r}
 \overline{2x^2} \\
 x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\
 \underline{2x^4 + 4x^3 - 6x^2} \\
 x^3 - 7x + 6
 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} 2x^2 + x \\ \hline x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 - 7x + 6 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} 2x^2 + x \\ \hline x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} 2x^2 + x \\ \hline x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 \\ \underline{x^3} \\ - 7x + 6 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} 2x^2 + x \\ \hline x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 - 7x + 6 \\ \underline{x^3 + 2x^2} \\ x^2 - 7x + 6 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} 2x^2 + x \\ \hline x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 - 7x + 6 \\ \underline{x^3 + 2x^2 - 3x} \\ 2x^2 - 10x + 6 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{2x^2 + x} \\ x^2 + 2x - 3 \left| \begin{array}{r} 2x^4 + 5x^3 - 6x^2 - 7x + 6 \\ 2x^4 + 4x^3 - 6x^2 \\ \hline x^3 - 7x + 6 \\ x^3 + 2x^2 - 3x \end{array} \right. \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} \overline{2x^2 + x} \\ x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 - 7x + 6 \\ \underline{ x^3 + 2x^2 - 3x} \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} \overline{2x^2 + x} \\ x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 - 7x + 6 \\ \underline{ x^3 + 2x^2 - 3x} \\ 2x^2 - 10x + 6 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

$$\begin{array}{r} \overline{2x^2 + x} \\ x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 - 7x + 6 \\ \underline{ x^3 + 2x^2 - 3x} \\ 2x^2 - 10x + 6 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{2x^2 + x} \\ x^2 + 2x - 3 \left| \begin{array}{r} 2x^4 + 5x^3 - 6x^2 - 7x + 6 \\ 2x^4 + 4x^3 - 6x^2 \\ \hline x^3 - 7x + 6 \\ x^3 + 2x^2 - 3x \\ \hline -2x^2 \end{array} \right. \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{2x^2 + x} \\ x^2 + 2x - 3 \left| \begin{array}{l} 2x^4 + 5x^3 - 6x^2 - 7x + 6 \\ 2x^4 + 4x^3 - 6x^2 \\ \hline x^3 - 7x + 6 \\ x^3 + 2x^2 - 3x \\ \hline -2x^2 - 4x \end{array} \right. \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{2x^2 + x} \\ x^2 + 2x - 3 \left| \begin{array}{r} 2x^4 + 5x^3 - 6x^2 - 7x + 6 \\ 2x^4 + 4x^3 - 6x^2 \\ \hline x^3 - 7x + 6 \\ x^3 + 2x^2 - 3x \\ \hline -2x^2 - 4x + 6 \end{array} \right. \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{2x^2 + x} \\ x^2 + 2x - 3 \left| \begin{array}{l} 2x^4 + 5x^3 - 6x^2 - 7x + 6 \\ 2x^4 + 4x^3 - 6x^2 \\ \hline x^3 - 7x + 6 \\ x^3 + 2x^2 - 3x \\ \hline -2x^2 - 4x + 6 \end{array} \right. \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{2x^2 + x} \\ x^2 + 2x - 3 \left| \begin{array}{r} 2x^4 + 5x^3 - 6x^2 - 7x + 6 \\ 2x^4 + 4x^3 - 6x^2 \\ \hline x^3 - 7x + 6 \\ x^3 + 2x^2 - 3x \\ \hline -2x^2 - 4x + 6 \end{array} \right. \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{2x^2 + x} \\ x^2 + 2x - 3 \left| \begin{array}{r} 2x^4 + 5x^3 - 6x^2 - 7x + 6 \\ 2x^4 + 4x^3 - 6x^2 \\ \hline x^3 - 7x + 6 \\ x^3 + 2x^2 - 3x \\ \hline -2x^2 - 4x + 6 \end{array} \right. \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{2x^2 + x - 2} \\
 x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\
 \underline{2x^4 + 4x^3 - 6x^2} \\
 x^3 - 7x + 6 \\
 \underline{x^3 + 2x^2 - 3x} \\
 -2x^2 - 4x + 6
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{2x^2 + x - 2} \\ x^2 + 2x - 3 \left| \begin{array}{r} 2x^4 + 5x^3 - 6x^2 - 7x + 6 \\ 2x^4 + 4x^3 - 6x^2 \\ \hline x^3 - 7x + 6 \\ x^3 + 2x^2 - 3x \\ \hline -2x^2 - 4x + 6 \end{array} \right. \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{2x^2 + x - 2} \\ x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 - 7x + 6 \\ \underline{ x^3 + 2x^2 - 3x} \\ -2x^2 - 4x + 6 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{2x^2 + x - 2} \\
 2x^4 + 5x^3 - 6x^2 - 7x + 6 \\
 \underline{2x^4 + 4x^3 - 6x^2} \\
 x^3 - 7x + 6 \\
 \underline{x^3 + 2x^2 - 3x} \\
 -2x^2 - 4x + 6 \\
 \underline{-2x^2} \\
 -4x + 6
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{2x^2 + x - 2} \\
 2x^4 + 5x^3 - 6x^2 - 7x + 6 \\
 \underline{2x^4 + 4x^3 - 6x^2} \\
 x^3 - 7x + 6 \\
 \underline{x^3 + 2x^2 - 3x} \\
 -2x^2 - 4x + 6 \\
 \underline{-2x^2 - 4x + 6}
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{2x^2 + x - 2} \\
 x^2 + 2x - 3 \left\{ \begin{array}{l}
 2x^4 + 5x^3 - 6x^2 - 7x + 6 \\
 \underline{2x^4 + 4x^3 - 6x^2} \\
 x^3 - 7x + 6 \\
 \underline{x^3 + 2x^2 - 3x} \\
 -2x^2 - 4x + 6 \\
 \underline{-2x^2 - 4x + 6}
 \end{array} \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{2x^2 + x - 2} \\ x^2 + 2x - 3 \left| \begin{array}{l} 2x^4 + 5x^3 - 6x^2 - 7x + 6 \\ 2x^4 + 4x^3 - 6x^2 \\ \hline x^3 - 7x + 6 \\ x^3 + 2x^2 - 3x \\ \hline -2x^2 - 4x + 6 \\ -2x^2 - 4x + 6 \end{array} \right. \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{2cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{2x^2 + x - 2} \\
 x^2 + 2x - 3 \left\{ \begin{array}{l}
 2x^4 + 5x^3 - 6x^2 - 7x + 6 \\
 \underline{2x^4 + 4x^3 - 6x^2} \\
 x^3 - 7x + 6 \\
 \underline{x^3 + 2x^2 - 3x} \\
 -2x^2 - 4x + 6 \\
 \underline{-2x^2 - 4x + 6}
 \end{array} \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{2x^2 + x - 2} \\
 x^2 + 2x - 3 \left\{ \begin{array}{l}
 2x^4 + 5x^3 - 6x^2 - 7x + 6 \\
 \underline{2x^4 + 4x^3 - 6x^2} \\
 x^3 - 7x + 6 \\
 \underline{x^3 + 2x^2 - 3x} \\
 -2x^2 - 4x + 6 \\
 \underline{-2x^2 - 4x + 6}
 \end{array} \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{2x^2 + x - 2} \\ x^2 + 2x - 3 \left| \begin{array}{r} 2x^4 + 5x^3 - 6x^2 - 7x + 6 \\ 2x^4 + 4x^3 - 6x^2 \\ \hline x^3 - 7x + 6 \\ x^3 + 2x^2 - 3x \\ \hline -2x^2 - 4x + 6 \\ -2x^2 - 4x + 6 \\ \hline 0 \end{array} \right. \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{2x^2 + x - 2} \\ x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 - 7x + 6 \\ \underline{x^3 + 2x^2 - 3x} \\ -2x^2 - 4x + 6 \\ \underline{-2x^2 - 4x + 6} \\ 0 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{2x^2 + x - 2}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{2x^2 + x - 2} \\ x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 - 7x + 6 \\ \underline{x^3 + 2x^2 - 3x} \\ -2x^2 - 4x + 6 \\ \underline{-2x^2 - 4x + 6} \\ 0 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

7. $(2x^4 + 5x^3 - 6x^2 - 7x + 6) \div (x^2 + 2x - 3) = \underline{2x^2 + x - 2}$

$$\begin{array}{r} \overline{2x^2 + x - 2} \\ x^2 + 2x - 3 \overline{) 2x^4 + 5x^3 - 6x^2 - 7x + 6} \\ \underline{2x^4 + 4x^3 - 6x^2} \\ x^3 - 7x + 6 \\ \underline{x^3 + 2x^2 - 3x} \\ -2x^2 - 4x + 6 \\ \underline{-2x^2 - 4x + 6} \\ 0 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$5x - 2 \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$5x - 2 \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{2cm}}$

$$5x - 2 \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{2cm}}$

$$5x - 2 \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{2cm}}$

$$5x - 2 \overline{) \begin{array}{r} x^3 \\ 5x^4 + 13x^3 - 26x^2 + 18x - 4 \end{array}}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$5x - 2 \overline{) \begin{array}{r} x^3 \\ 5x^4 + 13x^3 - 26x^2 + 18x - 4 \end{array}}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$5x - 2 \overline{) \begin{array}{r} x^3 \\ 5x^4 + 13x^3 - 26x^2 + 18x - 4 \end{array}}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$5x - 2 \overline{) \begin{array}{r} x^3 \\ 5x^4 + 13x^3 - 26x^2 + 18x - 4 \end{array}}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ 5x^4 \\ \hline 13x^3 - 26x^2 + 18x - 4 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ 5x^4 - 2x^3 \\ \hline + 15x^3 - 26x^2 + 18x - 4 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$5x - 2 \overline{) \begin{array}{r} + 13x^3 - 26x^2 + 18x - 4 \\ 5x^4 - 2x^3 \\ \hline + 15x^3 - 26x^2 + 18x - 4 \end{array}}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$5x - 2 \overline{) \begin{array}{r} + 13x^3 - 26x^2 + 18x - 4 \\ \underline{5x^4 - 2x^3} \end{array}}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$5x - 2 \overline{) \begin{array}{r} x^3 \\ 5x^4 + 13x^3 - 26x^2 + 18x - 4 \\ \underline{5x^4 - 2x^3} \end{array}}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{2cm}}$

$$5x - 2 \overline{) \begin{array}{r} + 13x^3 - 26x^2 + 18x - 4 \\ \underline{5x^4 - 2x^3} \end{array}}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{2cm}}$

$$5x - 2 \overline{) \begin{array}{r} + 13x^3 - 26x^2 + 18x - 4 \\ \underline{5x^4 - 2x^3} \\ + 15x^3 - 26x^2 + 18x - 4 \end{array}}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{2cm}}$

$$\begin{array}{r} \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) \begin{array}{r} 5x^4 + 13x^3 - 26x^2 + 18x - 4 \\ 5x^4 - 2x^3 \\ \hline 15x^3 - 26x^2 + 18x - 4 \end{array}} \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) } \\ \underline{5x^4 - 2x^3} \\ \\ \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{2cm}}$

$$\begin{array}{r} \overline{) } \\ \underline{5x^4 - 2x^3} \\ \\ \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^3 + 3x^2 \\ \hline 5x - 2 \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) } \\ \phantom{) } + - + - \\ \phantom{) } - \\ \hline \phantom{) } - - + - \\ \phantom{) } - - \\ \hline \phantom{) } - - - + - \\ \phantom{) } - - - \\ \hline \phantom{) } - - - - + - \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) } \\ \underline{x^3 + 3x^2} \\ 5x^4 + 13x^3 - 26x^2 + 18x - 4 \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{2cm}}$

$$\begin{array}{r} x^3 + 3x^2 \\ 5x - 2 \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) } \\ \\ \\ \\ \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) } \\ \\ \\ \\ \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) + 13x^3 - 26x^2 + 18x - 4} \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{) } \\ \underline{5x^4 - 2x^3} \\ \underline{15x^3 - 26x^2 + 18x - 4} \\ \underline{15x^3 - 6x^2} \\ \underline{-20x^2 + 18x - 4} \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{) } \\ \underline{5x^4 - 2x^3} \\ \underline{15x^3 - 26x^2 + 18x - 4} \\ \underline{15x^3 - 6x^2} \\ \underline{-20x^2 + 18x - 4} \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{2cm}}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{) } \\ \underline{x^3 + 3x^2 - 4x} \\ 5x^4 + 13x^3 - 26x^2 + 18x - 4 \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) } \\ \underline{5x^4 - 2x^3} \\ \underline{15x^3 - 26x^2 + 18x - 4} \\ \underline{15x^3 - 6x^2} \\ \underline{-20x^2 + 18x - 4} \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) } \\ \underline{x^3 + 3x^2 - 4x} \\ 5x^4 + 13x^3 - 26x^2 + 18x - 4 \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{x^3 + 3x^2 - 4x} \\ 5x - 2 \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) x^3 + 3x^2 - 4x} \\ \underline{5x - 2 5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ 5x^4 - 2x^3 \\ \\ \underline{15x^3 - 26x^2 + 18x - 4} \\ \underline{15x^3 - 6x^2} \\ \underline{-20x^2 + 18x - 4} \\ \underline{-20x^2} \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{x^3 + 3x^2 - 4x} \\ 5x - 2 \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \\ 10x - 4 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{x^3 + 3x^2 - 4x} \\ 5x - 2 \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) x^3 + 3x^2 - 4x} \\ \underline{5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ 5x^4 - 2x^3 \\ \hline 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) x^3 + 3x^2 - 4x} \\ \underline{5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ 5x^4 - 2x^3 \\ \hline 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) x^3 + 3x^2 - 4x} \\ \underline{5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ 5x^4 - 2x^3 \\ \hline 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \\ 10x \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{x^3 + 3x^2 - 4x} \\ 5x - 2 \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \\ 10x - 4 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{) } \\ \underline{x^3 + 3x^2 - 4x} \\ 5x^4 + 13x^3 - 26x^2 + 18x - 4 \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \\ 10x - 4 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

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Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{x^3 + 3x^2 - 4x} \\ 5x - 2 \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \\ 10x - 4 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

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Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{x^3 + 3x^2 - 4x} \\ 5x-2 \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \\ 10x - 4 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{x^3 + 3x^2 - 4x + 2} \\ 5x-2 \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \\ 10x - 4 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{) } \\ \phantom{) } \\ \phantom{) } \\ \phantom{) } \\ \phantom{) } \\ \phantom{) } \\ \phantom{) } \\ \phantom{) } \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) x^3 + 3x^2 - 4x + 2} \\ \underline{5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ 5x^4 - 2x^3 \\ \hline 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \\ 10x - 4 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{) x^3 + 3x^2 - 4x + 2} \\ \underline{5x-2 \phantom{) x^3 + 3x^2 - 4x + 2}} \\ 5x^4 + 13x^3 - 26x^2 + 18x - 4 \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \\ 10x - 4 \\ \underline{10x - 4} \\ 0 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{x^3 + 3x^2 - 4x + 2} \\ 5x - 2 \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \\ 10x - 4 \\ \underline{10x - 4} \\ 0 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{) x^3 + 3x^2 - 4x + 2} \\ \underline{5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ 5x^4 - 2x^3 \\ \hline 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \\ 10x - 4 \\ \underline{10x - 4} \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{x^3 + 3x^2 - 4x + 2} \\ 5x - 2 \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \\ 10x - 4 \\ \underline{10x - 4} \\ 0 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{) x^3 + 3x^2 - 4x + 2} \\ \underline{5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ 5x^4 - 2x^3 \\ \hline 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \\ 10x - 4 \\ \underline{10x - 4} \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{) } \\ \phantom{) } \\ \phantom{) } \\ \phantom{) } \\ \phantom{) } \\ \phantom{) } \\ \phantom{) } \\ \phantom{) } \\ \phantom{) } \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{) x^3 + 3x^2 - 4x + 2} \\ \underline{5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ 5x^4 - 2x^3 \\ \hline 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \\ 10x - 4 \\ \underline{10x - 4} \\ 0 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{x^3 + 3x^2 - 4x + 2}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} \overline{) x^3 + 3x^2 - 4x + 2} \\ \underline{5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ 5x^4 - 2x^3 \\ \hline 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \\ 10x - 4 \\ \underline{10x - 4} \\ 0 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

8. $(5x^4 + 13x^3 - 26x^2 + 18x - 4) \div (5x - 2) = \underline{x^3 + 3x^2 - 4x + 2}$

$$\begin{array}{r} \overline{x^3 + 3x^2 - 4x + 2} \\ 5x - 2 \overline{) 5x^4 + 13x^3 - 26x^2 + 18x - 4} \\ \underline{5x^4 - 2x^3} \\ 15x^3 - 26x^2 + 18x - 4 \\ \underline{15x^3 - 6x^2} \\ -20x^2 + 18x - 4 \\ \underline{-20x^2 + 8x} \\ 10x - 4 \\ \underline{10x - 4} \\ 0 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{2cm}}$

$$x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$x^2 + 3 \overline{) \overset{x^3}{x^5 - 3x^4 + 4x^3} + 3x + 27}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ + 3x + 27 \end{array}}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \end{array}}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 \\ x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 \\ x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ \underline{x^5} \\ + 3x + 27 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 \\ x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ \underline{x^5} + 3x^3 \\ + 3x^3 \\ \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 + 3x^3 \end{array}}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 + 3x^3 \end{array}}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 + 3x^3 \end{array}}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{2cm}}$

$$x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 + 3x^3 \end{array}}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 \\ x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ \underline{x^5 + 3x^3} \\ -3x^4 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 \\ x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ \underline{x^5 + 3x^3} \\ -3x^4 + x^3 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 \\ x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ \underline{x^5 + 3x^3} \\ -3x^4 + x^3 \\ \underline{-3x^4 + x^3} \\ 0x^0 + 3x + 27 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 \\ x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ \underline{x^5 + 3x^3} \\ -3x^4 + x^3 \\ \underline{-3x^4 + x^3} \\ + 3x + 27 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 + 3x^3 \\ \hline -3x^4 + x^3 + 3x + 27 \end{array}} \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 + 3x^3 \\ \hline -3x^4 + x^3 + 3x + 27 \end{array}} \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 \\ \hline x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 \\ \hline -3x^4 + x^3 + 3x + 27 \end{array}} \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 3x^2 \\ \hline x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ \underline{x^5 + 3x^3} \\ -3x^4 + x^3 \\ \hline + x^3 + 3x + 27 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 + 3x^3 \\ \hline -3x^4 + x^3 + 3x + 27 \end{array}} \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 + 3x^3 \\ \hline -3x^4 + x^3 + 3x + 27 \end{array}} \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 3x^2 \\ \hline x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ \underline{x^5 + 3x^3} \\ -3x^4 + x^3 \\ \hline -3x^4 + x^3 + 3x + 27 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 3x^2 \\ \hline x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ \underline{x^5 + 3x^3} \\ -3x^4 + x^3 \\ \underline{-3x^4} \\ + x^3 \\ \underline{+ 3x} \\ + 27 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 3x^2 \\ \hline x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ \underline{x^5 + 3x^3} \\ -3x^4 + x^3 \\ \underline{-3x^4 - 9x^2} \\ x^3 \\ \underline{ x^3 } \\ + 3x + 27 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 + 3x^3 \\ \hline -3x^4 + x^3 + 3x + 27 \\ -3x^4 - 9x^2 \\ \hline + x^3 + 3x + 27 \\ - 9x^2 \\ \hline + 3x + 27 \\ - 9x^2 \\ \hline + 27 \\ - 9x^2 \\ \hline \\ - 9x^2 \\ \hline \end{array} \\ \hline \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 + 3x^3 \\ \hline -3x^4 + x^3 + 3x + 27 \\ -3x^4 - 9x^2 \\ \hline + x^3 - 9x^2 + 3x + 27 \end{array}} \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 3x^2 \\ \hline x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ \underline{x^5 + 3x^3} \\ -3x^4 + x^3 + 3x + 27 \\ \underline{-3x^4 - 9x^2} \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 3x^2 \\ \hline x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ \underline{x^5 + 3x^3} \\ -3x^4 + x^3 \\ \underline{-3x^4 - 9x^2} \\ 9x^2 + 3x + 27 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} x^3 - 3x^2 \\ \hline x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ \underline{x^5 + 3x^3} \\ -3x^4 + x^3 + 3x + 27 \\ \underline{-3x^4 - 9x^2} \\ x^3 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} x^3 - 3x^2 \\ \hline x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ \underline{x^5 + 3x^3} \\ -3x^4 + x^3 + 3x + 27 \\ \underline{-3x^4 - 9x^2} \\ x^3 + 9x^2 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r}
 \overline{) - 3x^4 + 4x^3 + 3x + 27} \\
 \underline{x^3 - 3x^2} \\
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 \underline{x^5} + 3x^3 \\
 - 3x^4 + x^3 + 3x + 27 \\
 \underline{- 3x^4} - 9x^2 \\
 x^3 + 9x^2 + 3x
 \end{array}$$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} x^3 - 3x^2 \\ \hline x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ \underline{x^5 + 3x^3} \\ -3x^4 + x^3 + 3x + 27 \\ \underline{-3x^4 - 9x^2} \\ x^3 + 9x^2 + 3x + 27 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 + 3x^3 \\ \hline -3x^4 + x^3 + 3x + 27 \\ -3x^4 - 9x^2 \\ \hline x^3 + 9x^2 + 3x + 27 \end{array}} \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 + 3x^3 \\ \hline -3x^4 + x^3 + 3x + 27 \\ -3x^4 - 9x^2 \\ \hline x^3 + 9x^2 + 3x + 27 \end{array}} \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r} x^3 - 3x^2 \\ \hline x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ \underline{x^5 + 3x^3} \\ -3x^4 + x^3 + 27 \\ \underline{-3x^4 - 9x^2} \\ x^3 + 9x^2 + 3x + 27 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x} \\
 x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 + 27 \end{array} \\
 \hline
 -3x^4 + x^3 + 3x + 27 \\
 -3x^4 - 9x^2 \\
 \hline
 x^3 + 9x^2 + 3x + 27
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 + 3x^3 \\ \hline -3x^4 + x^3 + 3x + 27 \\ -3x^4 - 9x^2 \\ \hline x^3 + 9x^2 + 3x + 27 \end{array}} \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} x^3 - 3x^2 + x \\ \hline x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 \\ \hline -3x^4 + x^3 + 3x + 27 \\ -3x^4 \\ \hline x^3 + 9x^2 + 3x + 27 \end{array}} \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} x^3 - 3x^2 + x \\ \hline x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ \underline{x^5 + 3x^3} \\ -3x^4 + x^3 \\ \underline{-3x^4 - 9x^2} \\ x^3 + 9x^2 + 3x + 27 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \quad \quad \quad x^3 - 3x^2 + x \\
 \hline
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 x^5 \\
 \hline
 -3x^4 + x^3 + 3x + 27 \\
 -3x^4 - 9x^2 \\
 \hline
 x^3 + 9x^2 + 3x + 27 \\
 x^3
 \end{array} \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r} x^3 - 3x^2 + x \\ \hline x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\ - 3x^4 + 3x^3 \\ \hline + x^3 + 3x + 27 \\ - 3x^4 - 9x^2 \\ \hline + 9x^2 + 3x + 27 \\ + 3x \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x} \\
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 \underline{x^5 + 3x^3} \\
 -3x^4 + x^3 + 3x + 27 \\
 \underline{-3x^4 - 9x^2} \\
 x^3 + 9x^2 + 3x + 27 \\
 \underline{x^3 + 3x}
 \end{array}
 \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x} \\
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 \underline{x^5 + 3x^3} \\
 -3x^4 + x^3 + 3x + 27 \\
 \underline{-3x^4 - 9x^2} \\
 x^3 + 9x^2 + 3x + 27 \\
 \underline{x^3 + 3x}
 \end{array}
 \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x} \\
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 \underline{x^5 + 3x^3} \\
 -3x^4 + x^3 + 3x + 27 \\
 \underline{-3x^4 - 9x^2} \\
 x^3 + 9x^2 + 3x + 27 \\
 \underline{x^3 + 3x}
 \end{array}
 \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x} \\
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 \underline{x^5 + 3x^3} \\
 -3x^4 + x^3 + 3x + 27 \\
 \underline{-3x^4 - 9x^2} \\
 x^3 + 9x^2 + 3x + 27 \\
 \underline{x^3 + 3x}
 \end{array}
 \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x} \\
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 \underline{x^5 + 3x^3} \\
 -3x^4 + x^3 + 3x + 27 \\
 \underline{-3x^4 - 9x^2} \\
 x^3 + 9x^2 + 3x + 27 \\
 \underline{x^3 + 3x} \\
 9x^2
 \end{array}
 \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x} \\
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 \underline{x^5 + 3x^3} \\
 -3x^4 + x^3 + 3x + 27 \\
 \underline{-3x^4 - 9x^2} \\
 x^3 + 9x^2 + 3x + 27 \\
 \underline{x^3 + 3x} \\
 9x^2 + 27
 \end{array}
 \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x} \\
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 \underline{x^5 + 3x^3} \\
 -3x^4 + x^3 + 3x + 27 \\
 \underline{-3x^4 - 9x^2} \\
 x^3 + 9x^2 + 3x + 27 \\
 \underline{x^3 + 3x} \\
 9x^2 + 27
 \end{array}
 \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x} \\
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 \underline{x^5 + 3x^3} \\
 -3x^4 + x^3 + 3x + 27 \\
 \underline{-3x^4 - 9x^2} \\
 x^3 + 9x^2 + 3x + 27 \\
 \underline{x^3 + 3x} \\
 9x^2 + 27
 \end{array}
 \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \quad \quad \quad x^3 - 3x^2 + x \\
 \hline
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 x^5 + 3x^3 \\
 \hline
 -3x^4 + x^3 + 3x + 27 \\
 -3x^4 - 9x^2 \\
 \hline
 x^3 + 9x^2 + 3x + 27 \\
 x^3 + 3x \\
 \hline
 9x^2 + 27
 \end{array}
 \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step1: divide:

Step2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \quad \quad \quad x^3 - 3x^2 + x + 9 \\
 \hline
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 x^5 + 3x^3 \\
 \hline
 -3x^4 + x^3 + 3x + 27 \\
 -3x^4 - 9x^2 \\
 \hline
 x^3 + 9x^2 + 3x + 27 \\
 x^3 + 3x \\
 \hline
 9x^2 + 27
 \end{array}
 \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x + 9} \\
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 \underline{x^5 + 3x^3} \\
 -3x^4 + x^3 + 3x + 27 \\
 \underline{-3x^4 - 9x^2} \\
 x^3 + 9x^2 + 3x + 27 \\
 \underline{x^3 + 3x} \\
 9x^2 + 27
 \end{array}
 \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x + 9} \\
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 \underline{x^5 + 3x^3} \\
 -3x^4 + x^3 + 3x + 27 \\
 \underline{-3x^4 - 9x^2} \\
 x^3 + 9x^2 + 3x + 27 \\
 \underline{x^3 + 3x} \\
 9x^2 + 27
 \end{array} \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \quad \quad \quad x^3 - 3x^2 + x + 9 \\
 \hline
 x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\
 \quad \quad \quad + 3x^3 \\
 \hline
 \quad \quad \quad -3x^4 + x^3 + 3x + 27 \\
 \quad \quad \quad -3x^4 \quad - 9x^2 \\
 \hline
 \quad \quad \quad x^3 + 9x^2 + 3x + 27 \\
 \quad \quad \quad x^3 \quad + 3x \\
 \hline
 \quad \quad \quad 9x^2 \quad + 27
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \quad \quad \quad x^3 - 3x^2 + x + 9 \\
 \hline
 x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\
 \quad \quad \quad + 3x^3 \\
 \hline
 \quad \quad \quad -3x^4 + x^3 + 3x + 27 \\
 \quad \quad \quad -3x^4 \quad - 9x^2 \\
 \hline
 \quad \quad \quad x^3 + 9x^2 + 3x + 27 \\
 \quad \quad \quad x^3 \quad \quad + 3x \\
 \hline
 \quad \quad \quad 9x^2 \quad \quad + 27 \\
 \quad \quad \quad 9x^2
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \quad \quad \quad x^3 - 3x^2 + x + 9 \\
 \hline
 x^2 + 3 \overline{) x^5 - 3x^4 + 4x^3 + 3x + 27} \\
 \quad \quad \quad + 3x^3 \\
 \hline
 \quad \quad \quad -3x^4 + x^3 + 3x + 27 \\
 \quad \quad \quad -3x^4 \quad - 9x^2 \\
 \hline
 \quad \quad \quad x^3 + 9x^2 + 3x + 27 \\
 \quad \quad \quad x^3 \quad \quad + 3x \\
 \hline
 \quad \quad \quad 9x^2 \quad \quad + 27 \\
 \quad \quad \quad 9x^2 \quad \quad + 27
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x + 9} \\
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 \underline{x^5 + 3x^3} \\
 -3x^4 + x^3 + 3x + 27 \\
 \underline{-3x^4 - 9x^2} \\
 x^3 + 9x^2 + 3x + 27 \\
 \underline{x^3 + 3x} \\
 9x^2 + 27 \\
 \underline{9x^2 } \\
 27
 \end{array}
 \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x + 9} \\
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 \underline{x^5 + 3x^3} \\
 -3x^4 + x^3 + 3x + 27 \\
 \underline{-3x^4 - 9x^2} \\
 x^3 + 9x^2 + 3x + 27 \\
 \underline{x^3 + 3x} \\
 9x^2 + 27 \\
 \underline{9x^2 } \\
 27
 \end{array}
 \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x + 9} \\
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 \underline{x^5 + 3x^3} \\
 -3x^4 + x^3 + 3x + 27 \\
 \underline{-3x^4 - 9x^2} \\
 x^3 + 9x^2 + 3x + 27 \\
 \underline{x^3 + 3x} \\
 9x^2 + 27 \\
 \underline{9x^2 + 27} \\
 0
 \end{array}
 \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x + 9} \\
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 \underline{x^5 + 3x^3} \\
 -3x^4 + x^3 + 3x + 27 \\
 \underline{-3x^4 - 9x^2} \\
 x^3 + 9x^2 + 3x + 27 \\
 \underline{x^3 + 3x} \\
 9x^2 + 27 \\
 \underline{9x^2 + 27} \\
 0
 \end{array}
 \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x + 9} \\
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 \underline{x^5 + 3x^3} \\
 -3x^4 + x^3 + 3x + 27 \\
 \underline{-3x^4 - 9x^2} \\
 x^3 + 9x^2 + 3x + 27 \\
 \underline{x^3 + 3x} \\
 9x^2 + 27 \\
 \underline{9x^2 + 27} \\
 0
 \end{array}
 \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x + 9} \\
 x^2 + 3 \left| \begin{array}{r}
 x^5 - 3x^4 + 4x^3 + 3x + 27 \\
 \underline{x^5 + 3x^3} \\
 -3x^4 + x^3 + 3x + 27 \\
 \underline{-3x^4 - 9x^2} \\
 x^3 + 9x^2 + 3x + 27 \\
 \underline{x^3 + 3x} \\
 9x^2 + 27 \\
 \underline{9x^2 + 27} \\
 0
 \end{array}
 \right.
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{\hspace{4cm}}$

$$\begin{array}{r}
 \overline{x^3 - 3x^2 + x + 9} \\
 x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 + 27 \end{array} \\
 \hline
 -3x^4 + x^3 + 3x + 27 \\
 -3x^4 - 9x^2 + 27 \\
 \hline
 x^3 + 9x^2 + 3x + 27 \\
 x^3 + 3x \\
 \hline
 9x^2 + 27 \\
 9x^2 + 27 \\
 \hline
 0
 \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{x^3 - 3x^2 + x + 9}$

$$\begin{array}{r} x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 + 3x^3 \\ \hline -3x^4 + x^3 + 3x + 27 \\ -3x^4 - 9x^2 \\ \hline x^3 + 9x^2 + 3x + 27 \\ x^3 + 3x \\ \hline 9x^2 + 27 \\ 9x^2 + 27 \\ \hline 0 \end{array}} \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

9. $(x^5 - 3x^4 + 4x^3 + 3x + 27) \div (x^2 + 3) = \underline{x^3 - 3x^2 + x + 9}$

$$\begin{array}{r} \overline{x^3 - 3x^2 + x + 9} \\ x^2 + 3 \overline{) \begin{array}{r} x^5 - 3x^4 + 4x^3 + 3x + 27 \\ x^5 + 3x^3 \\ \hline -3x^4 + x^3 + 3x + 27 \\ -3x^4 - 9x^2 \\ \hline x^3 + 9x^2 + 3x + 27 \\ x^3 + 3x \\ \hline 9x^2 + 27 \\ 9x^2 + 27 \\ \hline 0 \end{array}} \end{array}$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{2cm}}$

$$x^3 - 4x^2 + 8x - 8$$

$$x^6$$

$$- 64$$

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{2cm}}$

$$x^3 - 4x^2 + 8x - 8 \overline{) x^6 \hspace{10em} - 64}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{2cm}}$

$$x^3 - 4x^2 + 8x - 8 \overline{) x^6 \hspace{15em} - 64}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{2cm}}$

$$x^3 - 4x^2 + 8x - 8$$

$$x^6$$

$$- 64$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 4x^2 + 8x - 8 \overline{) x^6 - 64} \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 4x^2 + 8x - 8 \overline{) x^6 \\ \underline{x^6} \\ + 8x^4 \\ \underline{8x^4} \\ - 8x^3 \\ \underline{8x^3} \\ - 64 \\ \underline{- 64} \\ \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 4x^2 + 8x - 8 \overline{) x^6 \\ \underline{x^6} \\ + 8x^4 \\ \underline{8x^4} \\ - 8x^3 \\ \underline{8x^3} \\ - 64 \\ \underline{- 64} \\ \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 4x^2 + 8x - 8 \overline{) x^6 \\ \underline{x^6} \\ + 8x^4 \\ \underline{8x^4} \\ - 8x^3 \\ \underline{8x^3} \\ - 64 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) x^6 - 64} \\ \underline{x^6} \\ \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$x^3 - 4x^2 + 8x - 8$$

$$\begin{array}{r} x^6 \\ x^6 - 4x^5 \end{array}$$

$$x^3$$

$$- 64$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$x^3 - 4x^2 + 8x - 8$$

$$\begin{array}{r} x^6 \\ x^6 - 4x^5 + 8x^4 \end{array}$$

$$x^3$$

$$- 64$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$x^3 - 4x^2 + 8x - 8$$

$$x^6$$

$$x^6 - 4x^5 + 8x^4 - 8x^3$$

$$x^3$$

$$- 64$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 4x^2 + 8x - 8 \overline{) x^6 - 64} \\ \underline{x^6 - 4x^5 + 8x^4 - 8x^3} \\ \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 4x^2 + 8x - 8 \overline{) x^6 - 64} \\ \underline{x^6 - 4x^5 + 8x^4 - 8x^3} \\ \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 4x^2 + 8x - 8 \overline{) x^6 - 64} \\ \underline{x^6 - 4x^5 + 8x^4 - 8x^3} \\ \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 4x^2 + 8x - 8 \overline{) x^6 - 64} \\ \underline{x^6 - 4x^5 + 8x^4 - 8x^3} \\ \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 4x^2 + 8x - 8 \overline{) \begin{array}{r} x^6 \\ x^6 - 4x^5 + 8x^4 - 8x^3 \\ \hline 4x^5 \end{array}} \end{array} \quad \begin{array}{r} x^3 \\ \hline - 64 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 4x^2 + 8x - 8 \overline{) \begin{array}{r} x^6 \\ x^6 - 4x^5 + 8x^4 - 8x^3 \\ \hline 4x^5 - 8x^4 \end{array}} \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 4x^2 + 8x - 8 \overline{) \begin{array}{r} x^6 \\ x^6 - 4x^5 + 8x^4 - 8x^3 \\ \hline 4x^5 - 8x^4 + 8x^3 \end{array}} \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 4x^2 + 8x - 8 \overline{) \begin{array}{r} x^6 \\ x^6 - 4x^5 + 8x^4 - 8x^3 \\ \hline 4x^5 - 8x^4 + 8x^3 - 64 \end{array}} \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 4x^2 + 8x - 8 \overline{) \begin{array}{r} x^6 \\ x^6 - 4x^5 + 8x^4 - 8x^3 \\ \hline 4x^5 - 8x^4 + 8x^3 \\ \hline \end{array} \quad \begin{array}{r} x^3 \\ - 64 \\ \\ - 64 \end{array}} \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 4x^2 + 8x - 8 \overline{) \begin{array}{r} x^6 \\ x^6 - 4x^5 + 8x^4 - 8x^3 \\ \hline 4x^5 - 8x^4 + 8x^3 \end{array}} \end{array} \begin{array}{r} x^3 \\ - 64 \\ - 64 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 4x^2 + 8x - 8 \overline{) x^6 - 64} \\ \underline{x^6 - 4x^5 + 8x^4 - 8x^3} \\ 4x^5 - 8x^4 + 8x^3 \\ \underline{4x^5 - 8x^4 + 8x^3} \\ \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{) x^3 + 4x^2} \\ \underline{x^6} \\ - 4x^5 + 8x^4 - 8x^3 \\ \underline{4x^5} - 8x^4 + 8x^3 \\ - 8x^4 + 8x^3 - 64 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 4x^2 + 8x - 8 \overline{) \begin{array}{r} x^6 \\ x^6 - 4x^5 + 8x^4 - 8x^3 \\ \hline 4x^5 - 8x^4 + 8x^3 \end{array}} \end{array} \begin{array}{r} x^3 + 4x^2 \\ - 64 \\ - 64 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} x^3 - 4x^2 + 8x - 8 \overline{) \begin{array}{r} x^6 \\ x^6 - 4x^5 + 8x^4 - 8x^3 \\ \hline 4x^5 - 8x^4 + 8x^3 \end{array}} \end{array} \begin{array}{r} x^3 + 4x^2 \\ - 64 \\ - 64 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \qquad \qquad \qquad x^3 + 4x^2 \\ \hline x^3 - 4x^2 + 8x - 8 \left| \begin{array}{r} x^6 \qquad \qquad \qquad - 64 \\ x^6 - 4x^5 + 8x^4 - 8x^3 \\ \hline 4x^5 - 8x^4 + 8x^3 \qquad \qquad - 64 \\ 4x^5 - 16x^4 \end{array} \right. \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{10em}}$

$$\begin{array}{r}
 \overline{) x^3 + 4x^2} \\
 x^3 - 4x^2 + 8x - 8 \overline{) x^6 - 4x^5 + 8x^4 - 8x^3} \\
 \underline{4x^5 - 8x^4 + 8x^3} \\
 4x^5 - 16x^4 + 32x^3 - 32x^2 \\

 \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{10em}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2$	x^6	$- 64$
		$x^6 - 4x^5 + 8x^4 - 8x^3$	
		$4x^5 - 8x^4 + 8x^3$	$- 64$
		$4x^5 - 16x^4 + 32x^3 - 32x^2$	

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{10em}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2$	x^6	$- 64$
		$x^6 - 4x^5 + 8x^4 - 8x^3$	
		$4x^5 - 8x^4 + 8x^3$	$- 64$
		$4x^5 - 16x^4 + 32x^3 - 32x^2$	

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2$	x^6	$- 64$
		$x^6 - 4x^5 + 8x^4 - 8x^3$	
		$4x^5 - 8x^4 + 8x^3$	$- 64$
		$4x^5 - 16x^4 + 32x^3 - 32x^2$	
		$8x^4$	

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2$	x^6	$- 64$
		$x^6 - 4x^5 + 8x^4 - 8x^3$	
		$4x^5 - 8x^4 + 8x^3$	$- 64$
		$4x^5 - 16x^4 + 32x^3 - 32x^2$	
		$8x^4 - 24x^3$	

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2$	x^6	$- 64$
		$x^6 - 4x^5 + 8x^4 - 8x^3$	
		$4x^5 - 8x^4 + 8x^3$	$- 64$
		$4x^5 - 16x^4 + 32x^3 - 32x^2$	
		$8x^4 - 24x^3 + 32x^2$	

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2$	
	x^6	$- 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$	
	$4x^5 - 8x^4 + 8x^3$	$- 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$	
	$8x^4 - 24x^3 + 32x^2$	$- 64$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$\begin{array}{r} + 8x^4 - 8x^3 \\ \hline 4x^5 - 8x^4 + 8x^3 \\ \hline 4x^5 - 16x^4 + 32x^3 - 32x^2 \\ \hline 8x^4 - 24x^3 + 32x^2 \end{array}$	$\begin{array}{r} - 64 \\ - 64 \\ - 64 \end{array}$
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Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2$	
	x^6	$- 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$	
	$4x^5 - 8x^4 + 8x^3$	$- 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$	
	$8x^4 - 24x^3 + 32x^2$	$- 64$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$\begin{array}{r} + 8x^4 \\ \hline x^6 - 4x^5 + 8x^4 - 8x^3 \\ \hline 4x^5 - 8x^4 + 8x^3 \\ 4x^5 - 16x^4 + 32x^3 - 32x^2 \\ \hline 8x^4 - 24x^3 + 32x^2 - 64 \end{array}$
-----------------------	--

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$\begin{array}{r} + 8x^4 - 8x^3 \\ \hline 4x^5 - 8x^4 + 8x^3 \\ \hline 4x^5 - 16x^4 + 32x^3 - 32x^2 \\ \hline 8x^4 - 24x^3 + 32x^2 \\ \hline - 64 \end{array}$
-----------------------	--

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x$	
	x^6	$- 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$	
	$4x^5 - 8x^4 + 8x^3$	$- 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$	
	$8x^4 - 24x^3 + 32x^2$	$- 64$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$$\begin{array}{r} \overline{x^3 + 4x^2 + 8x} \\ x^3 - 4x^2 + 8x - 8 \left| \begin{array}{r} x^6 \\ x^6 - 4x^5 + 8x^4 - 8x^3 \\ \hline 4x^5 - 8x^4 + 8x^3 \\ 4x^5 - 16x^4 + 32x^3 - 32x^2 \\ \hline 8x^4 - 24x^3 + 32x^2 \\ - 64 \end{array} \right. \end{array}$$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$\begin{array}{r} x^3 + 4x^2 + 8x \\ \hline x^6 - 4x^5 + 8x^4 - 8x^3 \\ \hline 4x^5 - 8x^4 + 8x^3 - 64 \\ 4x^5 - 16x^4 + 32x^3 - 32x^2 \\ \hline 8x^4 - 24x^3 + 32x^2 - 64 \end{array}$
-----------------------	---

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$\begin{array}{r} x^3 + 4x^2 + 8x \\ \hline x^6 \\ x^6 - 4x^5 + 8x^4 - 8x^3 \\ \hline 4x^5 - 8x^4 + 8x^3 \\ 4x^5 - 16x^4 + 32x^3 - 32x^2 \\ \hline 8x^4 - 24x^3 + 32x^2 \\ 8x^4 \end{array}$	$\begin{array}{r} - 64 \\ - 64 \\ - 64 \end{array}$
-----------------------	--	---

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	x^6	$- 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$	
	$4x^5 - 8x^4 + 8x^3$	$- 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$	
	$8x^4 - 24x^3 + 32x^2$	$- 64$
	$8x^4 - 32x^3$	

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	x^6	$- 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$	
	$4x^5 - 8x^4 + 8x^3$	$- 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$	
	$8x^4 - 24x^3 + 32x^2$	$- 64$
	$8x^4 - 32x^3 + 64x^2$	

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x$	x^6	$- 64$
		$x^6 - 4x^5 + 8x^4 - 8x^3$	
		$4x^5 - 8x^4 + 8x^3$	$- 64$
		$4x^5 - 16x^4 + 32x^3 - 32x^2$	
		$8x^4 - 24x^3 + 32x^2$	$- 64$
		$8x^4 - 32x^3 + 64x^2 - 64x$	

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x$	x^6	$- 64$
		$x^6 - 4x^5 + 8x^4 - 8x^3$	
		$4x^5 - 8x^4 + 8x^3$	$- 64$
		$4x^5 - 16x^4 + 32x^3 - 32x^2$	
		$8x^4 - 24x^3 + 32x^2$	$- 64$
		$8x^4 - 32x^3 + 64x^2 - 64x$	

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x$	
	x^6	$- 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$	
	$4x^5 - 8x^4 + 8x^3$	$- 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$	
	$8x^4 - 24x^3 + 32x^2$	$- 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$	

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{10em}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x$	x^6	$- 64$
		$x^6 - 4x^5 + 8x^4 - 8x^3$	
		$4x^5 - 8x^4 + 8x^3$	$- 64$
		$4x^5 - 16x^4 + 32x^3 - 32x^2$	
		$8x^4 - 24x^3 + 32x^2$	$- 64$
		$8x^4 - 32x^3 + 64x^2 - 64x$	

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{10em}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x$
	$x^6 \qquad \qquad \qquad - 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$
	<hr/>
	$4x^5 - 8x^4 + 8x^3 \qquad - 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$
	<hr/>
	$8x^4 - 24x^3 + 32x^2 \qquad - 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$
	<hr/>

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x$
	$x^6 \hspace{10em} - 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$
	<hr/>
	$4x^5 - 8x^4 + 8x^3 \hspace{2em} - 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$
	<hr/>
	$8x^4 - 24x^3 + 32x^2 \hspace{2em} - 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$
	<hr/>
	$8x^3$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{10em}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x$	
	x^6	$- 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$	
	$4x^5 - 8x^4 + 8x^3$	$- 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$	
	$8x^4 - 24x^3 + 32x^2$	$- 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$	
	$8x^3 - 32x^2$	

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x$	$- 64$
	x^6	$- 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$	
	$4x^5 - 8x^4 + 8x^3$	$- 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$	
	$8x^4 - 24x^3 + 32x^2$	$- 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$	
	$8x^3 - 32x^2 + 64x$	

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x$	$x^6 - 64$
		$x^6 - 4x^5 + 8x^4 - 8x^3$
		$4x^5 - 8x^4 + 8x^3 - 64$
		$4x^5 - 16x^4 + 32x^3 - 32x^2$
		$8x^4 - 24x^3 + 32x^2 - 64$
		$8x^4 - 32x^3 + 64x^2 - 64x$
		$8x^3 - 32x^2 + 64x - 64$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x$
	$x^6 \qquad \qquad \qquad - 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$
	<hr/>
	$4x^5 - 8x^4 + 8x^3 \qquad - 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$
	<hr/>
	$8x^4 - 24x^3 + 32x^2 \qquad - 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$
	<hr/>
	$8x^3 - 32x^2 + 64x - 64$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x$
	$x^6 \hspace{10em} - 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$
	<hr/>
	$4x^5 - 8x^4 + 8x^3 \hspace{2em} - 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$
	<hr/>
	$8x^4 - 24x^3 + 32x^2 \hspace{2em} - 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$
	<hr/>
	$8x^3 - 32x^2 + 64x - 64$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x$	
x^6	x^6	$- 64$
$- 4x^2$	$- 4x^5 + 8x^4 - 8x^3$	
$+ 8x$	$4x^5 - 8x^4 + 8x^3$	$- 64$
$- 8$	$4x^5 - 16x^4 + 32x^3 - 32x^2$	
	$8x^4 - 24x^3 + 32x^2$	$- 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$	
	$8x^3 - 32x^2 + 64x - 64$	

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x + 8$
	$\begin{array}{r} x^6 \\ \underline{x^6 - 4x^5 + 8x^4 - 8x^3} \\ 4x^5 - 8x^4 + 8x^3 \\ \underline{4x^5 - 16x^4 + 32x^3 - 32x^2} \\ 8x^4 - 24x^3 + 32x^2 \\ \underline{8x^4 - 32x^3 + 64x^2 - 64x} \\ 8x^3 - 32x^2 + 64x - 64 \end{array}$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x + 8$
	$x^6 \qquad \qquad \qquad - 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$
	<hr/>
	$4x^5 - 8x^4 + 8x^3 \qquad - 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$
	<hr/>
	$8x^4 - 24x^3 + 32x^2 \qquad - 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$
	<hr/>
	$8x^3 - 32x^2 + 64x - 64$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x + 8$
	$x^6 \qquad \qquad \qquad - 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$
	<hr/>
	$4x^5 - 8x^4 + 8x^3 \qquad - 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$
	<hr/>
	$8x^4 - 24x^3 + 32x^2 \qquad - 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$
	<hr/>
	$8x^3 - 32x^2 + 64x - 64$

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	x^6	$x^3 + 4x^2 + 8x + 8$	$- 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$		
	$4x^5 - 8x^4 + 8x^3$		$- 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$		
	$8x^4 - 24x^3 + 32x^2$		$- 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$		
			$8x^3 - 32x^2 + 64x - 64$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$\begin{array}{r} + 8x^4 + 8x^3 \\ \hline x^6 - 4x^5 + 8x^4 - 8x^3 \\ \hline 4x^5 - 8x^4 + 8x^3 \\ 4x^5 - 16x^4 + 32x^3 - 32x^2 \\ \hline 8x^4 - 24x^3 + 32x^2 \\ 8x^4 - 32x^3 + 64x^2 - 64x \\ \hline 8x^3 - 32x^2 + 64x - 64 \\ 8x^3 \end{array}$
-----------------------	---

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$\begin{array}{r} + 8x^4 + 8x^3 \\ \hline x^6 - 4x^5 + 8x^4 - 8x^3 \\ \hline 4x^5 - 8x^4 + 8x^3 - 64 \\ 4x^5 - 16x^4 + 32x^3 - 32x^2 \\ \hline 8x^4 - 24x^3 + 32x^2 - 64 \\ 8x^4 - 32x^3 + 64x^2 - 64x \\ \hline 8x^3 - 32x^2 + 64x - 64 \\ 8x^3 - 32x^2 \end{array}$
-----------------------	--

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	x^6	$x^3 + 4x^2 + 8x + 8$	$- 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$		
	$4x^5 - 8x^4 + 8x^3$		$- 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$		
	$8x^4 - 24x^3 + 32x^2$		$- 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$		
	$8x^3 - 32x^2 + 64x - 64$		
	$8x^3 - 32x^2 + 64x$		

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	x^6	$x^3 + 4x^2 + 8x + 8$	$- 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$		
	$4x^5 - 8x^4 + 8x^3$		$- 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$		
	$8x^4 - 24x^3 + 32x^2$		$- 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$		
	$8x^3 - 32x^2 + 64x - 64$		
	$8x^3 - 32x^2 + 64x - 64$		

Step 1: divide:

Step 2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x + 8$
	$x^6 \qquad \qquad \qquad - 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$
	<hr/>
	$4x^5 - 8x^4 + 8x^3 \qquad - 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$
	<hr/>
	$8x^4 - 24x^3 + 32x^2 \qquad - 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$
	<hr/>
	$8x^3 - 32x^2 + 64x - 64$
	$8x^3 - 32x^2 + 64x - 64$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x + 8$
	$x^6 \qquad \qquad \qquad - 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$
	<hr/>
	$4x^5 - 8x^4 + 8x^3 \qquad - 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$
	<hr/>
	$8x^4 - 24x^3 + 32x^2 \qquad - 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$
	<hr/>
	$8x^3 - 32x^2 + 64x - 64$
	$8x^3 - 32x^2 + 64x - 64$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x + 8$
	$x^6 \qquad \qquad \qquad - 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$
	<hr style="border: 0.5px solid black;"/>
	$4x^5 - 8x^4 + 8x^3 \qquad - 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$
	<hr style="border: 0.5px solid black;"/>
	$8x^4 - 24x^3 + 32x^2 \qquad - 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$
	<hr style="border: 0.5px solid black;"/>
	$8x^3 - 32x^2 + 64x - 64$
	$8x^3 - 32x^2 + 64x - 64$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x + 8$
	$x^6 \qquad \qquad \qquad - 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$
	<hr/>
	$4x^5 - 8x^4 + 8x^3 \qquad - 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$
	<hr/>
	$8x^4 - 24x^3 + 32x^2 \qquad - 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$
	<hr/>
	$8x^3 - 32x^2 + 64x - 64$
	<hr/>
	$8x^3 - 32x^2 + 64x - 64$

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x + 8$
	$x^6 \qquad \qquad \qquad - 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$
	<hr/>
	$4x^5 - 8x^4 + 8x^3 \qquad - 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$
	<hr/>
	$8x^4 - 24x^3 + 32x^2 \qquad - 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$
	<hr/>
	$8x^3 - 32x^2 + 64x - 64$
	$8x^3 - 32x^2 + 64x - 64$
	<hr/>
	0

Step1: divide:

Step2: multiply:

Step 3: subtract

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{\hspace{4cm}}$

		$x^3 + 4x^2 + 8x + 8$
$x^3 - 4x^2 + 8x - 8$		$x^6 \qquad \qquad \qquad - 64$ $x^6 - 4x^5 + 8x^4 - 8x^3$
		$4x^5 - 8x^4 + 8x^3 \qquad - 64$ $4x^5 - 16x^4 + 32x^3 - 32x^2$
Step1: divide:		$8x^4 - 24x^3 + 32x^2 \qquad - 64$ $8x^4 - 32x^3 + 64x^2 - 64x$
Step2: multiply:		$8x^3 - 32x^2 + 64x - 64$ $8x^3 - 32x^2 + 64x - 64$
Step 3: subtract		0

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{x^3 + 4x^2 + 8x + 8}$

$x^3 - 4x^2 + 8x - 8$	$x^3 + 4x^2 + 8x + 8$
	$x^6 \qquad \qquad \qquad - 64$
	$x^6 - 4x^5 + 8x^4 - 8x^3$
	<hr/>
	$4x^5 - 8x^4 + 8x^3 \qquad - 64$
	$4x^5 - 16x^4 + 32x^3 - 32x^2$
	<hr/>
	$8x^4 - 24x^3 + 32x^2 \qquad - 64$
	$8x^4 - 32x^3 + 64x^2 - 64x$
	<hr/>
	$8x^3 - 32x^2 + 64x - 64$
	$8x^3 - 32x^2 + 64x - 64$
	<hr/>
	0

Algebra I Class Worksheet #6 Unit 10

Perform the indicated operations. Express your answers in simplest form.

10. $(x^6 - 64) \div (x^3 - 4x^2 + 8x - 8) = \underline{x^3 + 4x^2 + 8x + 8}$

$$\begin{array}{r}
 \overline{) x^6 } \\
 \underline{x^3 - 4x^2 + 8x - 8} \\
 4x^3 - 16x^4 + 32x^2 - 32x^2 \\
 \underline{8x^4 - 24x^3 + 32x^2} \\
 8x^4 - 32x^3 + 64x^2 - 64x \\
 \underline{8x^3 - 32x^2 + 64x - 64} \\
 8x^3 - 32x^2 + 64x - 64 \\
 \underline{} \\
 0
 \end{array}$$

Good luck on your homework !!

