

Algebra I Lesson #2 Unit 11
Class Worksheet #2
For Worksheets #3 - #6

Algebra I Unit 11 Factoring Trinomials - Type 2

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x is a factor of both terms.

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‘Factor out’ the x.

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We want to find a connection between the original problems and the final answers.

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The problems involve multiplying two binomials

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$$(5x + 2)(x + 4) = 5x^2 + 22x + 8$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

The problems involve multiplying two binomials of the form $ax + b$ and $cx + d$.

Algebra I Unit 11 Factoring Trinomials - Type 2

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Algebra I Unit 11 Factoring Trinomials - Type 2

Consider the following multiplication problems.

$$\begin{array}{c} \text{8x} \\ \text{-----} \\ (2x + 5)(3x + 4) = 6x^2 + 23x + 20 \end{array}$$

$$(5x + 2)(x + 4) = 5x^2 + 22x + 8$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

The problems involve multiplying two binomials of the form $ax + b$ and $cx + d$. The answers are all trinomials. In each case the first term of the answer is an x^2 -term. This term is simply the product of the two x -terms. In each case the last term is a constant. This is simply the product of the two constants. The ‘middle term’ is more complex. This is the sum of 2 products. We will call the first product the ‘outer product’

Algebra I Unit 11 Factoring Trinomials - Type 2

Consider the following multiplication problems.

$$\begin{array}{c} 8x \\ \text{-----} \\ (2x + 5)(3x + 4) = 6x^2 + 23x + 20 \end{array}$$

$$\begin{array}{c} 20x \\ \text{-----} \\ (5x + 2)(x + 4) = 5x^2 + 22x + 8 \end{array}$$

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The problems involve multiplying two binomials of the form $ax + b$ and $cx + d$. The answers are all trinomials. In each case the first term of the answer is an x^2 -term. This term is simply the product of the two x -terms. In each case the last term is a constant. This is simply the product of the two constants. The ‘middle term’ is more complex. This is the sum of 2 products. We will call the first product the ‘outer product’

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$$\begin{array}{c} 20x \\ \text{-----} \\ (5x + 2)(x + 4) = 5x^2 + 22x + 8 \end{array}$$

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Algebra I Unit 11 Factoring Trinomials - Type 2

Consider the following multiplication problems.

$$\begin{array}{c} 8x \\ \text{-----} \\ (2x + 5)(3x + 4) = 6x^2 + 23x + 20 \\ \text{-----} \\ 15x \\ 20x \end{array}$$

$$\begin{array}{c} 15x \\ 20x \\ \text{-----} \\ (5x + 2)(x + 4) = 5x^2 + 22x + 8 \end{array}$$

$$\begin{array}{c} adx \\ \text{-----} \\ (ax + b)(cx + d) = acx^2 + (ad + bc)x + bd \end{array}$$

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$$\begin{array}{c} 15x \\ 20x \\ \text{---} \\ (5x + 2)(x + 4) = 5x^2 + 22x + 8 \\ \text{---} \\ 2x \\ 8x \end{array}$$

$$\begin{array}{c} 2x \\ adx \\ \text{---} \\ (ax + b)(cx + d) = acx^2 + (ad + bc)x + bd \end{array}$$

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$$\begin{array}{c} 2x \\ adx \\ \text{---} \\ (ax + b)(cx + d) = acx^2 + (ad + bc)x + bd \\ \text{---} \\ bcx \end{array}$$

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Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

1. $(x + 2)(3x + 4) =$ _____

2. $(7x + 1)(x - 5) =$ _____

3. $(4x - 5)(x + 3) =$ _____

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

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

$$2. (7x + 1)(x - 5) = \underline{\hspace{2cm}}$$

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

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Perform the indicated operations.

$$1. \quad \overbrace{(x + 2)(3x + 4)}^{4x} = \underline{3x^2}$$

$$2. \quad (7x + 1)(x - 5) = \underline{\hspace{2cm}}$$

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

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{\quad 3x^2 \quad}$$

$$2. \quad (7x + 1)(x - 5) = \underline{\hspace{2cm}}$$

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


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Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{\quad 3x^2 + \quad}$$

$$2. \quad (7x + 1)(x - 5) = \underline{\hspace{2cm}}$$

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


$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x}$$

$$2. \quad (7x + 1)(x - 5) = \underline{\hspace{2cm}}$$

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$$1. (x + 2)(3x + 4) = \underline{3x^2 + 10x}$$

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$$1. \quad (x + 2)(3x + 4) = \underline{3x^2 + 10x + 8}$$


$$2. \quad (7x + 1)(x - 5) = \underline{\hspace{2cm}}$$

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Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \overbrace{(x+2)(3x+4)}^{4x} \\ \underbrace{\hspace{1.5cm}}_{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad (7x + 1)(x - 5) = \underline{\hspace{2cm}}$$

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


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Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \text{7x} + 1 \\ \underbrace{\quad \quad} \uparrow \\ (x - 5) \end{array} = \underline{\hspace{2cm}}$$

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

$$(ax + b)(cx + d) = \downarrow \underline{acx^2 + (ad + bc)x + bd}$$

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$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

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

$$\begin{array}{c} \downarrow \\ (ax + b)(cx + d) = acx^2 + (ad + bc)x + bd \end{array}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad (7x + 1)(x - 5) = \underline{7x^2}$$

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

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \overbrace{(x + 2)(3x + 4)}^{4x} = \underline{3x^2 + 10x + 8}$$

$\underbrace{\hspace{1.5cm}}_{6x}$

$$2. \quad (7x + 1)(x - 5) = \underline{7x^2}$$

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

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \text{-35x} \\ \overbrace{(7x + 1)(x - 5)} \end{array} = \underline{7x^2}$$

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

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \overbrace{(x + 2)(3x + 4)}^{4x} \\ \underbrace{\hspace{1.5cm}}_{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \overbrace{(7x + 1)(x - 5)}^{-35x} \\ \underbrace{\hspace{1.5cm}}_{1x} \end{array} = \underline{7x^2}$$

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


$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \overbrace{(x+2)(3x+4)}^{4x} \\ \underbrace{\hspace{1.5cm}}_{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \overbrace{(7x+1)(x-5)}^{-35x} \\ \underbrace{\hspace{1.5cm}}_{1x} \end{array} = \underline{7x^2 -}$$

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

$$(ax + b)(cx + d) = acx^2 + \overset{\downarrow}{(ad + bc)}x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \overbrace{(x + 2)(3x + 4)}^{4x} \\ \underbrace{\hspace{1.5cm}}_{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \overbrace{(7x + 1)(x - 5)}^{-35x} \\ \underbrace{\hspace{1.5cm}}_{1x} \end{array} = \underline{7x^2 - 34x}$$

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


$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad (7x + 1)(x - 5) = \underline{7x^2 - 34x}$$

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

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \overbrace{(x+2)(3x+4)}^{4x} \\ \underbrace{\hspace{1.5cm}}_{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad (7x + 1)(x - 5) = \underline{7x^2 - 34x}$$

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

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$


Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \overbrace{(x+2)(3x+4)}^{4x} \\ \underbrace{\hspace{1.5cm}}_{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} (7x+1)(x-5) \\ \underbrace{\hspace{1.5cm}}_{\uparrow} \end{array} = \underline{7x^2 - 34x}$$

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

$$(ax+b)(cx+d) = acx^2 + (ad+bc)x + \downarrow bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \overbrace{(x+2)(3x+4)}^{4x} \\ \underbrace{\hspace{1.5cm}}_{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} (7x+1)(x-5) \\ \underbrace{\hspace{1.5cm}}_{\uparrow} \end{array} = \underline{7x^2 - 34x -}$$

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

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + \downarrow bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \overbrace{(x + 2)(3x + 4)}^{4x} = \underline{3x^2 + 10x + 8}$$

$\underbrace{\hspace{1.5cm}}_{6x}$

$$2. \quad (7x + 1)(x - 5) = \underline{7x^2 - 34x - 5}$$

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

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + \downarrow bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \overbrace{(x + 2)(3x + 4)}^{4x} \\ \underbrace{\hspace{1.5cm}}_{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \overbrace{(7x + 1)(x - 5)}^{-35x} \\ \underbrace{\hspace{1.5cm}}_{1x} \end{array} = \underline{7x^2 - 34x - 5}$$

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

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \text{-35x} \\ \overbrace{(7x + 1)(x - 5)} \\ \text{1x} \end{array} = \underline{7x^2 - 34x - 5}$$

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

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \text{-35x} \\ \overbrace{(7x + 1)(x - 5)} \\ \text{1x} \end{array} = \underline{7x^2 - 34x - 5}$$

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

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$


Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \overbrace{(x+2)(3x+4)}^{4x} \\ \underbrace{\hspace{1.5cm}}_{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \overbrace{(7x+1)(x-5)}^{-35x} \\ \underbrace{\hspace{1.5cm}}_{1x} \end{array} = \underline{7x^2 - 34x - 5}$$

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


$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \text{-35x} \\ \overbrace{(7x + 1)(x - 5)} \\ \text{1x} \end{array} = \underline{7x^2 - 34x - 5}$$

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

$$(ax + b)(cx + d) = \downarrow \underline{acx^2 + (ad + bc)x + bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \text{-35x} \\ \overbrace{(7x + 1)(x - 5)} \\ \text{1x} \end{array} = \underline{7x^2 - 34x - 5}$$

$$3. \quad \begin{array}{c} \text{4x} - 5 \\ \underbrace{\quad \quad \quad} \uparrow \\ \text{x} + 3 \end{array} = \underline{4x^2}$$

$$\downarrow$$
$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \text{-35x} \\ \overbrace{(7x + 1)(x - 5)} \\ \text{1x} \end{array} = \underline{7x^2 - 34x - 5}$$

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

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \text{-35x} \\ \overbrace{(7x + 1)(x - 5)} \\ \text{1x} \end{array} = \underline{7x^2 - 34x - 5}$$

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

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$


Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \text{-35x} \\ \overbrace{(7x + 1)(x - 5)} \\ \text{1x} \end{array} = \underline{7x^2 - 34x - 5}$$

$$3. \quad \begin{array}{c} \text{12x} \\ \overbrace{(4x - 5)(x + 3)} \end{array} = \underline{4x^2}$$


$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \text{-35x} \\ \overbrace{(7x + 1)(x - 5)} \\ \text{1x} \end{array} = \underline{7x^2 - 34x - 5}$$

$$3. \quad \begin{array}{c} \text{12x} \\ \overbrace{(4x - 5)(x + 3)} \\ \text{-5x} \end{array} = \underline{4x^2}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$


Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \text{-35x} \\ \overbrace{(7x + 1)(x - 5)} \\ \text{1x} \end{array} = \underline{7x^2 - 34x - 5}$$

$$3. \quad \begin{array}{c} \text{12x} \\ \overbrace{(4x - 5)(x + 3)} \\ \text{-5x} \end{array} = \underline{4x^2 +}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \text{-35x} \\ \overbrace{(7x + 1)(x - 5)} \\ \text{1x} \end{array} = \underline{7x^2 - 34x - 5}$$

$$3. \quad \begin{array}{c} \text{12x} \\ \overbrace{(4x - 5)(x + 3)} \\ \text{-5x} \end{array} = \underline{4x^2 + 7x}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$


Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \overbrace{(x + 2)(3x + 4)}^{4x} \\ \underbrace{}_{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \overbrace{(7x + 1)(x - 5)}^{-35x} \\ \underbrace{}_{1x} \end{array} = \underline{7x^2 - 34x - 5}$$

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

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \text{-35x} \\ \overbrace{(7x + 1)(x - 5)} \\ \text{1x} \end{array} = \underline{7x^2 - 34x - 5}$$

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

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$


Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \text{-----} \\ (\text{x} + 2)(3\text{x} + 4) = \underline{\quad 3\text{x}^2 + 10\text{x} + 8 \quad} \\ \text{6x} \end{array}$$

$$2. \quad \begin{array}{c} \text{-35x} \\ \text{-----} \\ (7\text{x} + 1)(\text{x} - 5) = \underline{\quad 7\text{x}^2 - 34\text{x} - 5 \quad} \\ \text{1x} \end{array}$$

$$3. \quad \begin{array}{c} \text{4x}^2 + 7\text{x} \\ \text{-----} \\ (4\text{x} - 5)(\text{x} + 3) \end{array}$$

$$(\text{ax} + \text{b})(\text{cx} + \text{d}) = \text{acx}^2 + (\text{ad} + \text{bc})\text{x} + \text{bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \text{---} \\ (x + 2)(3x + 4) = \end{array} \underline{3x^2 + 10x + 8}$$

6x

$$2. \quad \begin{array}{c} \text{-35x} \\ \text{---} \\ (7x + 1)(x - 5) = \end{array} \underline{7x^2 - 34x - 5}$$

1x

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

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \text{-35x} \\ \overbrace{(7x + 1)(x - 5)} \\ \text{1x} \end{array} = \underline{7x^2 - 34x - 5}$$

$$3. \quad \begin{array}{c} \text{4x} - 5 \\ \underbrace{\quad \quad \quad} \uparrow \\ \text{x} + 3 \end{array} = \underline{4x^2 + 7x - 15}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + \downarrow bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \text{-35x} \\ \overbrace{(7x + 1)(x - 5)} \\ \text{1x} \end{array} = \underline{7x^2 - 34x - 5}$$

$$3. \quad \begin{array}{c} \text{12x} \\ \overbrace{(4x - 5)(x + 3)} \\ \text{-5x} \end{array} = \underline{4x^2 + 7x - 15}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. \quad \begin{array}{c} \text{4x} \\ \overbrace{(x + 2)(3x + 4)} \\ \text{6x} \end{array} = \underline{3x^2 + 10x + 8}$$

$$2. \quad \begin{array}{c} \text{-35x} \\ \overbrace{(7x + 1)(x - 5)} \\ \text{1x} \end{array} = \underline{7x^2 - 34x - 5}$$

$$3. \quad \begin{array}{c} \text{12x} \\ \overbrace{(4x - 5)(x + 3)} \\ \text{-5x} \end{array} = \underline{4x^2 + 7x - 15}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$1. (x + 2)(3x + 4) = \underline{3x^2 + 10x + 8}$$

$$2. (7x + 1)(x - 5) = \underline{7x^2 - 34x - 5}$$

$$3. (4x - 5)(x + 3) = \underline{4x^2 + 7x - 15}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

4. $(x - 6)(2x - 5) =$ _____

5. $(3x + 4)(2x + 5) =$ _____

6. $(5x - 3)(3x + 1) =$ _____

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$4. (x - 6)(2x - 5) = \underline{\hspace{2cm}}$$

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

$$6. (5x - 3)(3x + 1) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$4. (x - 6)(2x - 5) = \underline{\hspace{2cm}}$$


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

$$6. (5x - 3)(3x + 1) = \underline{\hspace{2cm}}$$


$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$


Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$4. (x - 6)(2x - 5) = \underline{\hspace{2cm}}$$



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

$$6. (5x - 3)(3x + 1) = \underline{\hspace{2cm}}$$


$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$


Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

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


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

$$6. (5x - 3)(3x + 1) = \underline{\hspace{2cm}}$$


$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

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

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

$$6. (5x - 3)(3x + 1) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

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

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

$$6. (5x - 3)(3x + 1) = \underline{\hspace{2cm}}$$


$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$4. \quad \overbrace{(x - 6)(2x - 5)}^{-5x} = \underline{2x^2}$$

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

$$6. \quad (5x - 3)(3x + 1) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

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

5. $(3x + 4)(2x + 5) =$ _____

6. $(5x - 3)(3x + 1) =$ _____

$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

4. $(x - 6)(2x - 5) = \underline{2x^2 - 5x - 12x + 30}$

5. $(3x + 4)(2x + 5) =$ _____

6. $(5x - 3)(3x + 1) =$ _____

$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

4. $(x - 6)(2x - 5) = \underline{2x^2 - 17x}$

5. $(3x + 4)(2x + 5) =$ _____

6. $(5x - 3)(3x + 1) =$ _____

$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$4. (x - 6)(2x - 5) = \underline{2x^2 - 17x}$$

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

$$6. (5x - 3)(3x + 1) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$4. (x - 6)(2x - 5) = \underline{2x^2 - 17x}$$


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

$$6. (5x - 3)(3x + 1) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$


Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$4. \quad (x - 6)(2x - 5) = \underline{2x^2 - 17x}$$



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

$$6. \quad (5x - 3)(3x + 1) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$


Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$4. (x - 6)(2x - 5) = \underline{2x^2 - 17x + \quad}$$



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

$$6. (5x - 3)(3x + 1) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$


Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$4. (x - 6)(2x - 5) = \underline{2x^2 - 17x + 30}$$


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

$$6. (5x - 3)(3x + 1) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$


Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

4. $(x - 6)(2x - 5) = \underline{2x^2 - 17x + 30}$

5. $(3x + 4)(2x + 5) =$ _____

6. $(5x - 3)(3x + 1) =$ _____

$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

Algebra I Class Worksheet #2 Unit 11

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$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

Algebra I Class Worksheet #2 Unit 11

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$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

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Perform the indicated operations.

4. $(x - 6)(2x - 5) = \underline{2x^2 - 17x + 30}$

5. $(3x + 4)(2x + 5) =$ _____

6. $(5x - 3)(3x + 1) =$ _____

$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

4. $(x - 6)(2x - 5) = \underline{2x^2 - 17x + 30}$

5. $(3x + 4)(2x + 5) =$ _____

6. $(5x - 3)(3x + 1) =$ _____

$$(ax + b)(cx + d) = \mathbf{acx^2} + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

4. $(x - 6)(2x - 5) = \underline{2x^2 - 17x + 30}$

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

6. $(5x - 3)(3x + 1) =$ _____

$$(ax + b)(cx + d) = \mathbf{acx^2} + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

4. $(x - 6)(2x - 5) = \underline{2x^2 - 17x + 30}$

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

6. $(5x - 3)(3x + 1) =$ _____

$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$4. \quad \begin{array}{c} \text{---} -5x \text{---} \\ (x - 6)(2x - 5) = \underline{2x^2 - 17x + 30} \\ \text{---} -12x \text{---} \end{array}$$

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

$$6. \quad (5x - 3)(3x + 1) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

4. $(x - 6)(2x - 5) = \underline{2x^2 - 17x + 30}$

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

6. $(5x - 3)(3x + 1) =$ _____

$$(\mathbf{ax + b})(\mathbf{cx + d}) = \mathbf{acx^2 + (ad + bc)x + bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

4. $(x - 6)(2x - 5) = \underline{2x^2 - 17x + 30}$

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

6. $(5x - 3)(3x + 1) =$ _____

$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

4. $(x - 6)(2x - 5) = \underline{2x^2 - 17x + 30}$

5. $(3x + 4)(2x + 5) = \underline{6x^2 + 15x + 8x + 20}$

6. $(5x - 3)(3x + 1) =$ _____

$$(\mathbf{ax + b})(\mathbf{cx + d}) = \mathbf{acx^2 + (ad + bc)x + bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

4. $(x - 6)(2x - 5) = \underline{2x^2 - 17x + 30}$

5. $(3x + 4)(2x + 5) = \underline{6x^2 + 23x}$

6. $(5x - 3)(3x + 1) =$ _____

$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

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$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

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$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx^2} + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

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$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

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$$(\mathbf{ax + b})(\mathbf{cx + d}) = \mathbf{acx^2 + (ad + bc)x + bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

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$$(\mathbf{ax + b})(\mathbf{cx + d}) = \mathbf{acx^2 + (ad + bc)x + bd}$$

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Perform the indicated operations.

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$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

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$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

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6. $(5x - 3)(3x + 1) =$ _____



$$(ax + b)(cx + d) = \textcolor{red}{a}cx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

4. $(x - 6)(2x - 5) = \underline{2x^2 - 17x + 30}$

5. $(3x + 4)(2x + 5) = \underline{6x^2 + 23x + 20}$

6. $(5x - 3)(3x + 1) = \underline{15x^2}$

$$(ax + b)(cx + d) = \textcolor{red}{a}cx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

4. $(x - 6)(2x - 5) = \underline{2x^2 - 17x + 30}$

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6. $(5x - 3)(3x + 1) = \underline{15x^2}$

$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

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$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx^2} + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

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4. $(x - 6)(2x - 5) = \underline{2x^2 - 17x + 30}$

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6. $(5x - 3)(3x + 1) = \underline{\hspace{2cm}}$

$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx^2} + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

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4. $(x - 6)(2x - 5) = \underline{2x^2 - 17x + 30}$

5. $(3x + 4)(2x + 5) = \underline{6x^2 + 23x + 20}$

6. $(5x - 3)(3x + 1) = \underline{15x^2 - 4x}$

$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx^2} + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

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Perform the indicated operations.

4. $(x - 6)(2x - 5) = \underline{2x^2 - 17x + 30}$

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6. $(5x - 3)(3x + 1) = \underline{15x^2 - 4x}$

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$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

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6. $(5x - 3)(3x + 1) = \underline{15x^2 - 4x -}$

$$(\mathbf{ax + b})(\mathbf{cx + d}) = \mathbf{acx^2 + (ad + bc)x + bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

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5. $(3x + 4)(2x + 5) = \underline{6x^2 + 23x + 20}$

6. $(5x - 3)(3x + 1) = \underline{15x^2 - 4x - 3}$

$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

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6. $(5x - 3)(3x + 1) = \underline{15x^2 - 4x - 3}$

$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

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$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$4. (x - 6)(2x - 5) = \underline{2x^2 - 17x + 30}$$

$$5. (3x + 4)(2x + 5) = \underline{6x^2 + 23x + 20}$$

$$6. (5x - 3)(3x + 1) = \underline{15x^2 - 4x - 3}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

7. $(6x + 1)(3x - 4) =$ _____

8. $(3x - 5)(5x - 6) =$ _____

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. (6x + 1)(3x - 4) = \underline{\hspace{2cm}}$$

$$8. (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.


$$7. (6x + 1)(3x - 4) = \underline{\hspace{2cm}}$$

$$8. (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$



$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.


$$7. (6x + 1)(3x - 4) = \underline{\hspace{2cm}}$$


$$8. (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$



$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. (6x + 1)(3x - 4) = \underline{18x^2}$$


$$8. (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$


$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. (6x + 1)(3x - 4) = \underline{18x^2}$$

$$8. (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. (6x + 1)(3x - 4) = \underline{18x^2}$$

$$8. (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$


$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. \quad \overbrace{(6x + 1)(3x - 4)}^{-24x} = \underline{18x^2}$$

$$8. \quad (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. \quad (6x + 1)(3x - 4) = \underline{18x^2}$$

Note: In the original image, a purple bracket above the terms 1 and -4 is labeled -24x, and a purple bracket below the terms 6x and 3x is labeled 3x.

$$8. \quad (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Note: In the original image, a red arrow points down to the term 'ad' in the middle term.

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. \quad (6x + 1)(3x - 4) = \underline{18x^2 - 24x - 3x - 4}$$

$$8. \quad (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. \quad (6x + 1)(3x - 4) = \underline{18x^2 - 21x}$$

Note: In the original image, a purple bracket above the expression connects the 1 and -4 terms, labeled -24x. Another purple bracket below the expression connects the 6x and 3x terms, labeled 3x.

$$8. \quad (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Note: A red arrow points down to the 'ad' term in the middle coefficient.

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. (6x + 1)(3x - 4) = \underline{18x^2 - 21x}$$

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Perform the indicated operations.

$$7. (6x + 1)(3x - 4) = \underline{18x^2 - 21x}$$

$$8. (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$


Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. (6x + 1)(3x - 4) = \underline{18x^2 - 21x}$$


$$8. (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$


Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. (6x + 1)(3x - 4) = \underline{18x^2 - 21x -}$$


$$8. (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$


Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. (6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4}$$


$$8. (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$


Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. \quad (6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4}$$

Diagram illustrating the FOIL method for the multiplication of two binomials:

- The first terms are $6x$ and $3x$, which multiply to $18x^2$.
- The outer terms are $6x$ and -4 , which multiply to $-24x$.
- The inner terms are 1 and $3x$, which multiply to $3x$.
- The last terms are 1 and -4 , which multiply to -4 .

$$8. \quad (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. \quad (6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4}$$

Diagram illustrating the FOIL method for problem 7:

- A purple bracket above the expression connects $6x$ and $3x$, with $-24x$ written above it.
- A purple bracket below the expression connects 1 and $3x$, with $3x$ written below it.

$$8. \quad (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. \quad \begin{array}{c} \text{---} -24x \text{---} \\ \text{---} \text{---} \text{---} \\ (6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4} \\ \text{---} 3x \text{---} \end{array}$$

$$8. \quad (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. \quad \overbrace{(6x + 1)(3x - 4)}^{-24x} = \underline{18x^2 - 21x - 4}$$

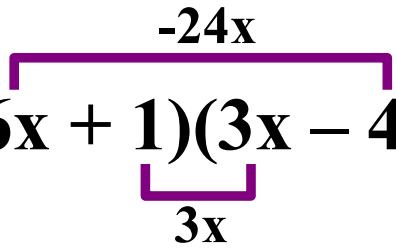
$\underbrace{\hspace{1.5cm}}_{3x}$


$$8. \quad (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$


$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

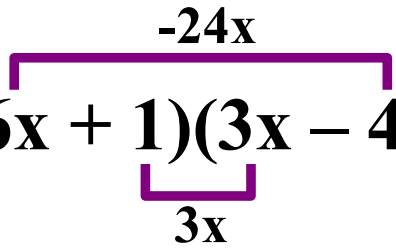
$$7. \quad (6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4}$$



$$8. \quad (3x - 5)(5x - 6) = \underline{\hspace{2cm}}$$




$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. \quad (6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4}$$


$$8. \quad (3x - 5)(5x - 6) = \underline{15x^2}$$



$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. \quad \begin{array}{c} \text{---} -24x \text{---} \\ \text{---} \text{---} \text{---} \\ (6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4} \\ \text{---} \text{---} \text{---} \\ \text{---} 3x \text{---} \end{array}$$

$$8. \quad (3x - 5)(5x - 6) = \underline{15x^2}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. \quad \overbrace{(6x + 1)(3x - 4)}^{-24x} = \underline{18x^2 - 21x - 4}$$

$\underbrace{\hspace{1.5cm}}_{3x}$

$$8. \quad (3x - 5)(5x - 6) = \underline{15x^2}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

7. $(6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4}$

8. $(3x - 5)(5x - 6) = \underline{15x^2}$

$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

7. $(6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4}$

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$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

7. $(6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4}$

8. $(3x - 5)(5x - 6) = \underline{15x^2 - 18x - 25x + 30}$

$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

7. $(6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4}$

8. $(3x - 5)(5x - 6) = \underline{15x^2 - 43x}$

$$(\mathbf{ax + b})(\mathbf{cx + d}) = \mathbf{acx^2 + (ad + bc)x + bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. \quad \begin{array}{c} \text{---} -24x \text{---} \\ \text{---} \text{---} \text{---} \\ (6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4} \\ \text{---} 3x \text{---} \end{array}$$

$$8. \quad (3x - 5)(5x - 6) = \underline{15x^2 - 43x}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

7. $(6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4}$

8. $(3x - 5)(5x - 6) = \underline{15x^2 - 43x}$

$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. \quad \begin{array}{c} \text{---} -24x \text{---} \\ \text{---} 3x \text{---} \end{array} (6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4}$$

$$8. \quad (3x - 5)(5x - 6) = \underline{15x^2 - 43x}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. \quad (6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4}$$

Diagram showing the FOIL process for problem 7: A purple bracket above the first terms $6x$ and $3x$ is labeled $-24x$. A purple bracket below the last terms 1 and -4 is labeled $3x$.

$$8. \quad (3x - 5)(5x - 6) = \underline{15x^2 - 43x + \quad}$$

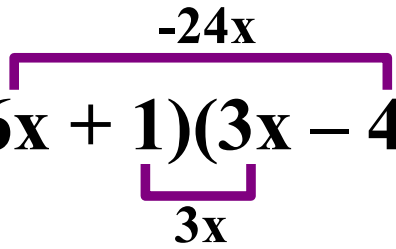
Diagram showing the FOIL process for problem 8: A red bracket below the first terms $3x$ and $5x$ points to the $15x^2$ term. A red arrow points from the last terms -5 and -6 to the $+30$ term (implied).


$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Diagram showing the FOIL process for the general formula: A red arrow points down to the bd term.

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$7. \quad (6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4}$$


$$8. \quad (3x - 5)(5x - 6) = \underline{15x^2 - 43x + 30}$$


$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$


Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

7. $(6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4}$

8. $(3x - 5)(5x - 6) = \underline{15x^2 - 43x + 30}$

$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

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Perform the indicated operations.

7. $(6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4}$

8. $(3x - 5)(5x - 6) = \underline{15x^2 - 43x + 30}$

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$$7. (6x + 1)(3x - 4) = \underline{18x^2 - 21x - 4}$$

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$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

9. $(x + 10)(3x - 2) =$ _____

10. $(7x + 3)(x + 5) =$ _____

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

$$9. (x + 10)(3x - 2) = \underline{\hspace{2cm}}$$

$$10. (7x + 3)(x + 5) = \underline{\hspace{2cm}}$$

$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.


$$9. (x + 10)(3x - 2) = \underline{\hspace{2cm}}$$

$$10. (7x + 3)(x + 5) = \underline{\hspace{2cm}}$$



$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.


$$9. (x + 10)(3x - 2) = \underline{\hspace{2cm}}$$


$$10. (7x + 3)(x + 5) = \underline{\hspace{2cm}}$$



$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

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Perform the indicated operations.

$$9. (x + 10)(3x - 2) = \underline{3x^2}$$


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$$(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$$

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$$9. (x + 10)(3x - 2) = \underline{3x^2}$$

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$$9. \quad \overbrace{(x + 10)(3x - 2)}^{-2x} = \underline{3x^2}$$

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Perform the indicated operations.

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10. $(7x + 3)(x + 5) =$ _____

$$(\mathbf{ax + b})(\mathbf{cx + d}) = \mathbf{acx^2 + (ad + bc)x + bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

9. $(x + 10)(3x - 2) = \underline{3x^2 + 30x - 20}$

10. $(7x + 3)(x + 5) =$ _____

$$(\mathbf{ax + b})(\mathbf{cx + d}) = \mathbf{acx^2 + (ad + bc)x + bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

9. $(x + 10)(3x - 2) = \underline{3x^2 + 28x}$

10. $(7x + 3)(x + 5) =$ _____

$$(\mathbf{ax + b})(\mathbf{cx + d}) = \mathbf{acx^2 + (ad + bc)x + bd}$$

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Perform the indicated operations.

$$9. (x + 10)(3x - 2) = \underline{3x^2 + 28x}$$

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$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

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$$9. \quad \overbrace{(x + 10)(3x - 2)}^{-2x} = \underline{3x^2 + 28x - 20}$$

$\underbrace{\hspace{1.5cm}}_{30x}$

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Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

9. $(x + 10)(3x - 2) = \underline{3x^2 + 28x - 20}$

10. $(7x + 3)(x + 5) = \underline{7x^2 + 35x + 15}$

$$(\mathbf{ax + b})(\mathbf{cx + d}) = \mathbf{acx^2 + (ad + bc)x + bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

9. $(x + 10)(3x - 2) = \underline{3x^2 + 28x - 20}$

10. $(7x + 3)(x + 5) = \underline{7x^2 + 35x + 3x + 15}$

$$(\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d}) = \mathbf{acx}^2 + (\mathbf{ad} + \mathbf{bc})\mathbf{x} + \mathbf{bd}$$

Algebra I Class Worksheet #2 Unit 11

Perform the indicated operations.

9. $(x + 10)(3x - 2) = \underline{3x^2 + 28x - 20}$

10. $(7x + 3)(x + 5) = \underline{7x^2 + 38x}$

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Perform the indicated operations.

$$9. \quad \overbrace{(x + 10)(3x - 2)}^{-2x} = \underline{3x^2 + 28x - 20}$$

$\underbrace{\hspace{1.5cm}}_{30x}$

$$10. \quad (7x + 3)(x + 5) = \underline{7x^2 + 38x + \hspace{1cm}}$$

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Algebra I Unit 11 Factoring Trinomials - Type 2

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Consider the following equations written as factoring problems.

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Consider the following equations written as factoring problems.

$$6x^2 + 29x + 35 = (2x + 5)(3x + 7)$$

$$6x^2 - 25x + 14 = (3x - 2)(2x - 7)$$

$$20x^2 + 21x - 5 = (5x - 1)(4x + 5)$$

$$8x^2 - 26x - 45 = (2x - 9)(4x + 5)$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

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The purpose of this part of this lesson is to demonstrate how to factor type 2 trinomials.

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The purpose of this part of this lesson is to demonstrate how to factor type 2 trinomials. These are trinomials where the leading coefficient is not 1.

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The purpose of this part of this lesson is to demonstrate how to factor ~~type~~ type 2 trinomials. These are trinomials where the leading coefficient is not 1. In the last equation above, there are two important relationships that must be understood:

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$\begin{matrix} a & c \\ \downarrow & \downarrow \end{matrix}$

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Algebra I Unit 11 Factoring Trinomials - Type 2

Consider the following equations written as factoring problems.

$$6x^2 + 29x + 35 = \overset{\text{a}}{\underset{\downarrow}{(2x + 5)}}\overset{\text{c}}{\underset{\downarrow}{(3x + 7)}}$$

$$6x^2 - 25x + 14 = (3x - 2)(2x - 7)$$

$$20x^2 + 21x - 5 = \overset{\text{a}}{\underset{\downarrow}{(5x - 1)}}\overset{\text{c}}{\underset{\downarrow}{(4x + 5)}}$$

$$8x^2 - 26x - 45 = (2x - 9)(4x + 5)$$

$$\mathbf{E}x^2 + \mathbf{F}x + \mathbf{G} = (\mathbf{a}x + \mathbf{b})(\mathbf{c}x + \mathbf{d})$$

The purpose of this part of this lesson is to demonstrate how to factor type 2 trinomials. These are trinomials where the leading coefficient is not 1. In the last equation above, there are two important relationships that must be understood: (1) $\mathbf{ac} = \mathbf{E}$

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Consider the following equations written as factoring problems.

$$6x^2 + 29x + 35 = (2x + 5)(3x + 7)$$

The diagram shows a purple bracket above the equation connecting the coefficient 29 to the sum of the inner products (5 * 3 = 15 and 5 * 7 = 35), which total 14x. The bracket is labeled 14x.

$$6x^2 - 25x + 14 = (3x - 2)(2x - 7)$$

The diagram shows a purple bracket above the equation connecting the coefficient -25 to the sum of the inner products (-2 * 3 = -6 and -2 * -7 = 14), which total -21x. The bracket is labeled -21x.

$$20x^2 + 21x - 5 = (5x - 1)(4x + 5)$$

The diagram shows a purple bracket above the equation connecting the coefficient 21 to the sum of the inner products (-1 * 5 = -5 and 1 * 4 = 4), which total -1x. The bracket is labeled 25x.

$$8x^2 - 26x - 45 = (2x - 9)(4x + 5)$$

The diagram shows a purple bracket above the equation connecting the coefficient -26 to the sum of the inner products (-9 * 2 = -18 and 5 * 4 = 20), which total -28x. The bracket is labeled 10x.

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Consider the following equations written as factoring problems.

$$6x^2 + 29x + 35 = (2x + 5)(3x + 7)$$

The diagram shows a purple bracket above the right-hand side of the equation, spanning from the constant term 35 to the coefficient of the middle term 29. The bracket is labeled with the value 14x, representing the sum of the outer and inner products of the factors (5*7 + 2*3).

$$6x^2 - 25x + 14 = (3x - 2)(2x - 7)$$

The diagram shows a purple bracket above the right-hand side of the equation, spanning from the constant term 14 to the coefficient of the middle term -25. The bracket is labeled with the value -21x, representing the sum of the outer and inner products of the factors (-2*-7 + 3*2).

$$20x^2 + 21x - 5 = (5x - 1)(4x + 5)$$

The diagram shows a purple bracket above the right-hand side of the equation, spanning from the constant term -5 to the coefficient of the middle term 21. The bracket is labeled with the value 25x, representing the sum of the outer and inner products of the factors (-1*5 + 5*4).

$$8x^2 - 26x - 45 = (2x - 9)(4x + 5)$$

The diagram shows a purple bracket above the right-hand side of the equation, spanning from the constant term -45 to the coefficient of the middle term -26. The bracket is labeled with the value 10x, representing the sum of the outer and inner products of the factors (-9*5 + 5*4).

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$$6x^2 + 29x + 35 = (2x + 5)(3x + 7)$$

Diagram illustrating the factoring process for $6x^2 + 29x + 35$. The trinomial is factored into $(2x + 5)(3x + 7)$. The outer product is $14x$ and the inner product is $15x$, which sum to $29x$.

$$20x^2 + 21x - 5 = (5x - 1)(4x + 5)$$

Diagram illustrating the factoring process for $20x^2 + 21x - 5$. The trinomial is factored into $(5x - 1)(4x + 5)$. The outer product is $25x$ and the inner product is $-4x$, which sum to $21x$.

$$6x^2 - 25x + 14 = (3x - 2)(2x - 7)$$

Diagram illustrating the factoring process for $6x^2 - 25x + 14$. The trinomial is factored into $(3x - 2)(2x - 7)$. The outer product is $-21x$ and the inner product is $-4x$, which sum to $-25x$.

$$8x^2 - 26x - 45 = (2x - 9)(4x + 5)$$

Diagram illustrating the factoring process for $8x^2 - 26x - 45$. The trinomial is factored into $(2x - 9)(4x + 5)$. The outer product is $10x$ and the inner product is $-36x$, which sum to $-26x$.

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Diagram illustrating the factoring process for $6x^2 - 25x + 14$. The middle term $-25x$ is split into $-21x$ and $-4x$. The factors are $(3x - 2)$ and $(2x - 7)$. The outer product is $-21x$ and the inner product is $-4x$.

$$20x^2 + 21x - 5 = (5x - 1)(4x + 5)$$

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Diagram illustrating the factoring process for the last equation. A bracket above the factors $(2x - 9)$ and $(4x + 5)$ is labeled $10x$, representing the outer product. A bracket below the same factors is labeled $-36x$, representing the inner product. The sum of these products is $10x - 36x = -26x$, which matches the middle term of the trinomial.

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Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

11. $2x^2 + 7x + 5 =$ _____

12. $4x^2 + 23x + 15 =$ _____

13. $3x^2 + 7x + 2 =$ _____

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{ad}x + \boxed{bc}x = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$11. \quad 2x^2 + 7x + 5 = \underline{\hspace{2cm}}$$

$$12. \quad 4x^2 + 23x + 15 = \underline{\hspace{2cm}}$$

$$13. \quad 3x^2 + 7x + 2 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

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Factor each of the following.

$$11. \quad 2x^2 + 7x + 5 = \underline{(2x \quad)(x \quad)}$$

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Factor each of the following.

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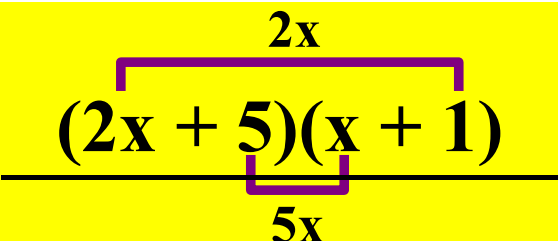
$$13. \quad 3x^2 + 7x + 2 = \underline{\hspace{2cm}}$$

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$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$


Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$11. \quad 2x^2 + 7x + 5 = \frac{(2x + 5)(x + 1)}{5x}$$


$$12. \quad 4x^2 + 23x + 15 = \underline{\hspace{2cm}}$$

$$13. \quad 3x^2 + 7x + 2 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$


$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$11. \quad 2x^2 + 7x + 5 = \frac{(2x + 5)(x + 1)}{5x}$$

$$12. \quad 4x^2 + 23x + 15 = \underline{\hspace{2cm}}$$

$$13. \quad 3x^2 + 7x + 2 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

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Algebra I Class Worksheet #2 Unit 11

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$$11. \quad 2x^2 + 7x + 5 = \underline{(2x + 5)(x + 1)}$$

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$$11. \quad 2x^2 + 7x + 5 = \underline{(2x + 5)(x + 1)}$$

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$$11. \quad 2x^2 + 7x + 5 = \underline{(2x + 5)(x + 1)}$$

$$12. \quad 4x^2 + 23x + 15 = \underline{(4x + 3)(x + 5)}$$

Diagram illustrating the factoring process for problem 12. A purple bracket above the terms $4x$ and 3 in the first factor is labeled $20x$. A purple bracket below the terms 3 and 5 in the second factor is labeled $3x$.

$$13. \quad 3x^2 + 7x + 2 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

Diagram illustrating the factoring process for problem 13. A purple bracket above the terms ax and b in the first factor is labeled $20x$. A purple bracket below the terms 3 and 5 in the second factor is labeled $3x$.

$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = Fx$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$11. \quad 2x^2 + 7x + 5 = \underline{(2x + 5)(x + 1)}$$

$$12. \quad 4x^2 + 23x + 15 = \underline{\frac{(4x + 3)(x + 5)}{3x}}$$

$$13. \quad 3x^2 + 7x + 2 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \underline{adx} + \underline{bcx} = \underline{Fx}$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$11. \quad 2x^2 + 7x + 5 = \underline{(2x + 5)(x + 1)}$$

$$12. \quad 4x^2 + 23x + 15 = \underline{(4x + 3)(x + 5)}$$

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$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

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Factor each of the following.

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$$11. \quad 2x^2 + 7x + 5 = \underline{(2x + 5)(x + 1)}$$

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$$13. \quad 3x^2 + 7x + 2 = \underline{(3x + 2)(x + 1)}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

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$$11. \quad 2x^2 + 7x + 5 = \underline{(2x + 5)(x + 1)}$$

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$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

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$$11. \quad 2x^2 + 7x + 5 = \underline{(2x + 5)(x + 1)}$$

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$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$11. \quad 2x^2 + 7x + 5 = \underline{(2x + 5)(x + 1)}$$

$$12. \quad 4x^2 + 23x + 15 = \underline{(4x + 3)(x + 5)}$$

$$13. \quad 3x^2 + 7x + 2 = \underline{(3x + 1)(x + 2)}$$

Diagram illustrating the factoring process for problem 13. A purple bracket above the factors $(3x + 1)$ and $(x + 2)$ is labeled $6x$, indicating the product of the leading terms. A purple bracket below the same factors is labeled $1x$, indicating the product of the constant terms.

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

Diagram illustrating the factoring process for a general quadratic. A purple bracket above the factors $(ax + b)$ and $(cx + d)$ connects the ax and cx terms. A purple bracket below the same factors connects the b and d terms.

$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$11. \quad 2x^2 + 7x + 5 = \underline{(2x + 5)(x + 1)}$$

$$12. \quad 4x^2 + 23x + 15 = \underline{(4x + 3)(x + 5)}$$

$$13. \quad 3x^2 + 7x + 2 = \underline{\begin{array}{c} \text{6x} \\ \overbrace{(3x + 1)(x + 2)} \\ \text{1x} \end{array}}$$

$$Ex^2 + Fx + G = \overbrace{(ax + b)(cx + d)}$$

$$E = ac \quad G = bd \quad \overbrace{adx + bcx} = Fx$$

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$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

14. $4x^2 + 16x + 15 =$ _____

15. $2x^2 - 5x + 3 =$ _____

16. $3x^2 - 10x + 3 =$ _____

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{ad}x + \boxed{bc}x = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$14. \quad 4x^2 + 16x + 15 = \underline{\hspace{2cm}}$$

$$15. \quad 2x^2 - 5x + 3 = \underline{\hspace{2cm}}$$

$$16. \quad 3x^2 - 10x + 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (\overbrace{ax + b}^{adx + bcx})(\underbrace{cx + d}_{=Fx})$$

$$E = ac \quad G = bd \quad \boxed{ad}x + \boxed{bc}x = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

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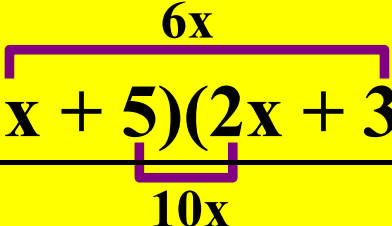
$$16. \quad 3x^2 - 10x + 3 = \underline{\hspace{2cm}}$$

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Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$14. \quad 4x^2 + 16x + 15 = \frac{(2x + 5)(2x + 3)}{10x}$$


$$15. \quad 2x^2 - 5x + 3 = \underline{\hspace{2cm}}$$

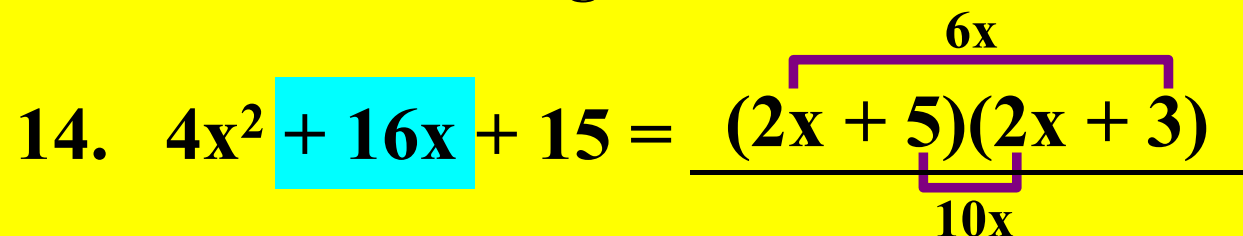
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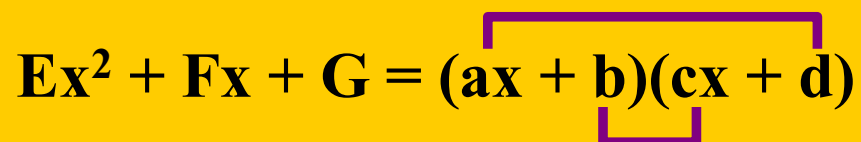
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$$14. \quad 4x^2 + 16x + 15 = \underline{(2x + 5)(2x + 3)}$$

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$$16. \quad 3x^2 - 10x + 3 = \underline{\hspace{2cm}}$$

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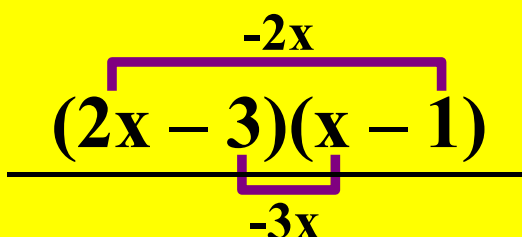
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$$14. \quad 4x^2 + 16x + 15 = \underline{(2x + 5)(2x + 3)}$$

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$$16. \quad 3x^2 - 10x + 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

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Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$14. \quad 4x^2 + 16x + 15 = \underline{(2x + 5)(2x + 3)}$$

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$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Factor each of the following.

15. $2x^2 - 5x + 3 = (2x - 3)(x - 1)$

$$\mathbf{E}\mathbf{x}^2 + \mathbf{F}\mathbf{x} + \mathbf{G} = (\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d})$$

$$\mathbf{E} = \mathbf{a}\mathbf{c} \quad \mathbf{G} = \mathbf{b}\mathbf{d} \quad \mathbf{a}\mathbf{d}\mathbf{x} + \mathbf{b}\mathbf{c}\mathbf{x} = \mathbf{F}\mathbf{x}$$

Factor each of the following.

15. $2x^2 - 5x + 3 = (2x - 3)(x - 1)$

$$\mathbf{E}\mathbf{x}^2 + \mathbf{F}\mathbf{x} + \mathbf{G} = (\mathbf{ax} + \mathbf{b})(\mathbf{cx} + \mathbf{d})$$

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Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$14. \quad 4x^2 + 16x + 15 = \underline{(2x + 5)(2x + 3)}$$

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

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$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

17. $5x^2 - 11x + 2 =$ _____

18. $5x^2 - 32x + 12 =$ _____

19. $2x^2 + 3x - 5 =$ _____

$$Ex^2 + Fx + G = (\overbrace{ax + b}^{adx + bcx})(\underbrace{cx + d}_{=Fx})$$

$$E = ac \quad G = bd \quad \boxed{ad}x + \boxed{bc}x = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \underline{\hspace{2cm}}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{\hspace{2cm}}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (\overbrace{ax + b}^{adx + bcx})(\underbrace{cx + d}_{=Fx})$$

$$E = ac \quad G = bd \quad \boxed{ad}x + \boxed{bc}x = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \underline{(5x \quad \quad)(x \quad \quad)}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{\hspace{2cm}}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

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Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \underline{(5x - 1)(x - 2)}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{\hspace{2cm}}$$

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$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \frac{(5x - 1)(x - 2)}{\text{_____}}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{\hspace{2cm}}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \frac{(5x - 1)(x - 2)}{-1x}$$

Note: In the original image, a purple bracket above the fraction indicates a multiplier of -10x, and a purple bracket below the denominator indicates a multiplier of -1x.

$$18. \quad 5x^2 - 32x + 12 = \underline{\hspace{2cm}}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

Note: In the original image, a purple bracket above the right-hand side indicates a multiplier of -10x, and a purple bracket below the right-hand side indicates a multiplier of -1x.

$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \frac{(5x - 1)(x - 2)}{-1x}$$

Note: In the original image, a purple bracket above the fraction connects the $-10x$ term to the $-1x$ term, and a purple bracket below the fraction connects the $-1x$ term to the $-10x$ term. The $-11x$ term in the numerator is highlighted in cyan.

$$18. \quad 5x^2 - 32x + 12 = \underline{\hspace{2cm}}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

Note: In the original image, a purple bracket above the right-hand side connects the ax and cx terms, and a purple bracket below the right-hand side connects the b and d terms.

$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Note: In the original image, the terms $\text{ad}x$, $\text{bc}x$, and $\text{F}x$ are highlighted in cyan.

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \underline{(5x - 1)(x - 2)}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{\hspace{2cm}}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \underline{(5x - 1)(x - 2)}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{\hspace{2cm}}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \underline{(5x - 1)(x - 2)}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{(5x \quad \quad)(x \quad \quad)}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \underline{(5x - 1)(x - 2)}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{(5x - 2)(x - 6)}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{\hspace{2cm}}$$


$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$


Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \underline{(5x - 1)(x - 2)}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{(5x - 2)(x - 6)}$$


$$19. \quad 2x^2 + 3x - 5 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$


$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Factor each of the following.

19. $2x^2 + 3x - 5 =$ _____

$$\mathbf{E} = \mathbf{a}\mathbf{c} \quad \mathbf{G} = \mathbf{b}\mathbf{d} \quad \mathbf{a}\mathbf{d}\mathbf{x} + \mathbf{b}\mathbf{c}\mathbf{x} = \mathbf{F}\mathbf{x}$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \underline{(5x - 1)(x - 2)}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{\begin{array}{c} \text{-30x} \\ \text{---} \\ (5x - 2)(x - 6) \\ \text{---} \\ \text{-2x} \end{array}}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = Fx$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \underline{(5x - 1)(x - 2)}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{(5x - 2)(x - 6)}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \underline{(5x - 1)(x - 2)}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{(5x - 2)(x - 6)}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \underline{(5x - 1)(x - 2)}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{(5x - 2)(x - 6)}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{(2x \quad \quad)(x \quad \quad)}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \underline{(5x - 1)(x - 2)}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{(5x - 2)(x - 6)}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{(2x + 5)(x - 1)}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$


$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$


Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \underline{(5x - 1)(x - 2)}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{(5x - 2)(x - 6)}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{(2x + 5)(x - 1)}$$


$$Ex^2 + Fx + G = (ax + b)(cx + d)$$


$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \underline{(5x - 1)(x - 2)}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{(5x - 2)(x - 6)}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{(2x + 5)(x - 1)}$$

Diagram illustrating the factoring process for problem 19. A purple bracket above the factors $(2x + 5)$ and $(x - 1)$ is labeled $-2x$. A purple bracket below the same factors is labeled $5x$.

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

Diagram illustrating the factoring process for the general quadratic. A purple bracket above the factors $(ax + b)$ and $(cx + d)$ is labeled $-2x$. A purple bracket below the same factors is labeled $5x$.

$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \underline{(5x - 1)(x - 2)}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{(5x - 2)(x - 6)}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{(2x + 5)(x - 1)}$$

Diagram illustrating the factoring process for problem 19. A purple bracket above the factors $(2x + 5)$ and $(x - 1)$ is labeled $-2x$, indicating the coefficient of the x term in the product. A purple bracket below the same factors is labeled $5x$, indicating the constant term in the product.

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

Diagram illustrating the factoring process for a general quadratic. A purple bracket above the factors $(ax + b)$ and $(cx + d)$ connects the a and c terms. A purple bracket below the same factors connects the b and d terms.

$$E = ac \quad G = bd \quad \underline{ad}x + \underline{bc}x = \underline{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$17. \quad 5x^2 - 11x + 2 = \underline{(5x - 1)(x - 2)}$$

$$18. \quad 5x^2 - 32x + 12 = \underline{(5x - 2)(x - 6)}$$

$$19. \quad 2x^2 + 3x - 5 = \underline{(2x + 5)(x - 1)}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

20. $7x^2 + 19x - 6 =$ _____

21. $3x^2 + x - 4 =$ _____

22. $6x^2 + 7x - 3 =$ _____

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{ad}x + \boxed{bc}x = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \underline{\hspace{2cm}}$$

$$21. \quad 3x^2 + x - 4 = \underline{\hspace{2cm}}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (\overbrace{ax + b}^{\hspace{1cm}})(\underbrace{cx + d}_{\hspace{1cm}})$$

$$E = ac \quad G = bd \quad \boxed{ad}x + \boxed{bc}x = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \underline{(7x \quad \quad)(x \quad \quad)}$$

$$21. \quad 3x^2 + x - 4 = \underline{\hspace{2cm}}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (\overbrace{ax + b}^{\hspace{1cm}})(\underbrace{cx + d}_{\hspace{1cm}})$$

$$E = ac \quad G = bd \quad \boxed{ad}x + \boxed{bc}x = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \underline{(7x - 2)(x + 3)}$$

$$21. \quad 3x^2 + x - 4 = \underline{\hspace{2cm}}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (\overbrace{ax + b}^{adx + bcx})(\underbrace{cx + d}_{=Fx})$$

$$E = ac \quad G = bd \quad \boxed{ad}x + \boxed{bc}x = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \frac{\overbrace{(7x - 2)(x + 3)}^{21x}}{\quad}$$

$$21. \quad 3x^2 + x - 4 = \underline{\hspace{2cm}}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (\overbrace{ax + b}^{adx + bcx})(\underbrace{cx + d}_{=Fx})$$

$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = Fx$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \frac{(7x - 2)(x + 3)}{-2x}$$

The diagram shows a purple bracket above the expression $(7x - 2)(x + 3)$ labeled $21x$, and a purple bracket below the expression labeled $-2x$.

$$21. \quad 3x^2 + x - 4 = \underline{\hspace{2cm}}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

The diagram shows a purple bracket above the expression $(ax + b)(cx + d)$ and a purple bracket below the expression.

$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \frac{(7x - 2)(x + 3)}{-2x}$$

Note: In the original image, a purple bracket above the denominator connects the 21x term to the 2 in (7x-2), and a purple bracket below the denominator connects the -2x term to the -2 in (7x-2).

$$21. \quad 3x^2 + x - 4 = \underline{\hspace{2cm}}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

Note: In the original image, a purple bracket above the right side connects the ax and b terms, and a purple bracket below the right side connects the cx and d terms.

$$E = ac \quad G = bd \quad adx + bcx = Fx$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \underline{(7x - 2)(x + 3)}$$

$$21. \quad 3x^2 + x - 4 = \underline{\hspace{2cm}}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{ad}x + \boxed{bc}x = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \underline{(7x - 2)(x + 3)}$$

$$21. \quad 3x^2 + x - 4 = \underline{\hspace{2cm}}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (\overbrace{ax + b}^{\hspace{1cm}})(\underbrace{cx + d}_{\hspace{1cm}})$$

$$E = ac \quad G = bd \quad \boxed{ad}x + \boxed{bc}x = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \underline{(7x - 2)(x + 3)}$$

$$21. \quad 3x^2 + x - 4 = \underline{(3x \quad \quad)(x \quad \quad)}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (\overbrace{ax + b}^{\hspace{1cm}})(\underbrace{cx + d}_{\hspace{1cm}})$$

$$E = ac \quad G = bd \quad \boxed{ad}x + \boxed{bc}x = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \underline{(7x - 2)(x + 3)}$$

$$21. \quad 3x^2 + x - 4 = \underline{(3x + 4)(x - 1)}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{\hspace{2cm}}$$


$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{ad}x + \boxed{bc}x = \boxed{F}x$$


Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \underline{(7x - 2)(x + 3)}$$

$$21. \quad 3x^2 + x - 4 = \underline{(3x + 4)(x - 1)}$$


$$22. \quad 6x^2 + 7x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$


$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = Fx$$

Factor each of the following.

21. $3x^2 + x - 4 = \frac{(3x + 4)(x - 1)}{4x}$

22. $6x^2 + 7x - 3 =$ _____

$$\mathbf{E}x^2 + \mathbf{F}x + \mathbf{G} = (\mathbf{a}x + \mathbf{b})(\mathbf{c}x + \mathbf{d})$$

$$\mathbf{E} = \mathbf{a}\mathbf{c} \quad \mathbf{G} = \mathbf{b}\mathbf{d} \quad \mathbf{a}\mathbf{d}\mathbf{x} + \mathbf{b}\mathbf{c}\mathbf{x} = \mathbf{F}\mathbf{x}$$

Factor each of the following.

21. $3x^2 + x - 4 = \frac{(3x + 4)(x - 1)}{4x}$

22. $6x^2 + 7x - 3 =$ _____

$$\mathbf{E} = \mathbf{a}\mathbf{c} \quad \mathbf{G} = \mathbf{b}\mathbf{d} \quad \mathbf{a}\mathbf{d}\mathbf{x} + \mathbf{b}\mathbf{c}\mathbf{x} = \mathbf{F}\mathbf{x}$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \underline{(7x - 2)(x + 3)}$$

$$21. \quad 3x^2 + x - 4 = \underline{(3x + 4)(x - 1)}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

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Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \underline{(7x - 2)(x + 3)}$$

$$21. \quad 3x^2 + x - 4 = \underline{(3x + 4)(x - 1)}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

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Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \underline{(7x - 2)(x + 3)}$$

$$21. \quad 3x^2 + x - 4 = \underline{(3x + 4)(x - 1)}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{(2x \quad \quad)(3x \quad \quad)}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{ad}x + \boxed{bc}x = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \underline{(7x - 2)(x + 3)}$$

$$21. \quad 3x^2 + x - 4 = \underline{(3x + 4)(x - 1)}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{(2x + 3)(3x - 1)}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

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Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \underline{(7x - 2)(x + 3)}$$

$$21. \quad 3x^2 + x - 4 = \underline{(3x + 4)(x - 1)}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{(2x + 3)(3x - 1)}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = Fx$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \underline{(7x - 2)(x + 3)}$$

$$21. \quad 3x^2 + x - 4 = \underline{(3x + 4)(x - 1)}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{\begin{array}{c} \text{---} -2x \text{---} \\ (2x + 3)(3x - 1) \\ \text{---} 9x \text{---} \end{array}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = Fx$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \underline{(7x - 2)(x + 3)}$$

$$21. \quad 3x^2 + x - 4 = \underline{(3x + 4)(x - 1)}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{\begin{array}{c} \text{---} -2x \text{---} \\ (2x + 3)(3x - 1) \\ \text{---} 9x \text{---} \end{array}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = Fx$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$20. \quad 7x^2 + 19x - 6 = \underline{(7x - 2)(x + 3)}$$

$$21. \quad 3x^2 + x - 4 = \underline{(3x + 4)(x - 1)}$$

$$22. \quad 6x^2 + 7x - 3 = \underline{(2x + 3)(3x - 1)}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

23. $2x^2 - 5x - 25 =$ _____

24. $4x^2 - 4x - 3 =$ _____

$$Ex^2 + Fx + G = (\overbrace{ax + b}^{ad})(\underbrace{cx + d}_{bc})$$

$$E = ac \quad G = bd \quad \boxed{ad}x + \boxed{bc}x = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$23. \quad 2x^2 - 5x - 25 = \underline{\hspace{2cm}}$$

$$24. \quad 4x^2 - 4x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (\overbrace{ax + b}^{\hspace{1cm}})(\underbrace{cx + d}_{\hspace{1cm}})$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$23. \quad 2x^2 - 5x - 25 = \underline{(2x \quad \quad)(x \quad \quad)}$$

$$24. \quad 4x^2 - 4x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$23. \quad 2x^2 - 5x - 25 = \underline{(2x + 5)(x - 5)}$$

$$24. \quad 4x^2 - 4x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$23. \quad 2x^2 - 5x - 25 = \frac{(2x + 5)(x - 5)}{\text{---}}$$

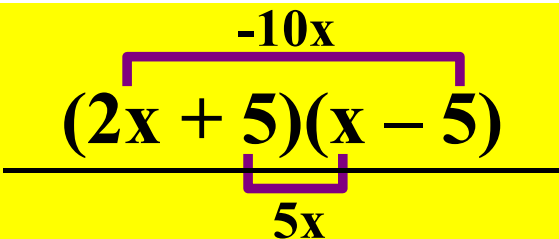
$$24. \quad 4x^2 - 4x - 3 = \text{---}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$


$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$23. \quad 2x^2 - 5x - 25 = \frac{(2x + 5)(x - 5)}{5x}$$


$$24. \quad 4x^2 - 4x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$


$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$23. \quad 2x^2 - 5x - 25 = \frac{(2x + 5)(x - 5)}{5x}$$

$$24. \quad 4x^2 - 4x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad adx + bcx = Fx$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$23. \quad 2x^2 - 5x - 25 = \underline{(2x + 5)(x - 5)}$$

$$24. \quad 4x^2 - 4x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$23. \quad 2x^2 - 5x - 25 = \underline{(2x + 5)(x - 5)}$$

$$24. \quad 4x^2 - 4x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (\overbrace{ax + b}^{\hspace{1cm}})(\underbrace{cx + d}_{\hspace{1cm}})$$

$$E = ac \quad G = bd \quad \overbrace{ad}^{\hspace{1cm}}x + \overbrace{bc}^{\hspace{1cm}}x = \overbrace{F}^{\hspace{1cm}}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$23. \quad 2x^2 - 5x - 25 = \underline{(2x + 5)(x - 5)}$$

$$24. \quad 4x^2 - 4x - 3 = \underline{(2x \quad \quad)(2x \quad \quad)}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$23. \quad 2x^2 - 5x - 25 = \underline{(2x + 5)(x - 5)}$$

$$24. \quad 4x^2 - 4x - 3 = \underline{(2x + 1)(2x - 3)}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$23. \quad 2x^2 - 5x - 25 = \underline{(2x + 5)(x - 5)}$$

$$24. \quad 4x^2 - 4x - 3 = \underline{(2x + 1)(2x - 3)}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$23. \quad 2x^2 - 5x - 25 = \underline{(2x + 5)(x - 5)}$$

$$24. \quad 4x^2 - 4x - 3 = \underline{(2x + 1)(2x - 3)}$$

Diagram illustrating the factoring process for problem 24. A purple bracket above the factors $(2x + 1)$ and $(2x - 3)$ is labeled $-6x$. A purple bracket below the same factors is labeled $2x$.

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$23. \quad 2x^2 - 5x - 25 = \underline{(2x + 5)(x - 5)}$$

$$24. \quad 4x^2 - 4x - 3 = \underline{(2x + 1)(2x - 3)}$$

Diagram illustrating the factoring process for problem 24. A purple bracket above the factors $(2x + 1)$ and $(2x - 3)$ is labeled $-6x$, representing the sum of the outer and inner products. A purple bracket below the same factors is labeled $2x$, representing the product of the first and last terms.

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{ad}x + \boxed{bc}x = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$23. \quad 2x^2 - 5x - 25 = \underline{(2x + 5)(x - 5)}$$

$$24. \quad 4x^2 - 4x - 3 = \underline{(2x + 1)(2x - 3)}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

25. $10x^2 - 11x - 6 =$ _____

26. $4x^2 - 11x - 3 =$ _____

$$Ex^2 + Fx + G = (\overbrace{ax + b}^{})(\underbrace{cx + d}_{})$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$25. \quad 10x^2 - 11x - 6 = \underline{\hspace{2cm}}$$

$$26. \quad 4x^2 - 11x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (\overbrace{ax + b}^{\hspace{1cm}})(\underbrace{cx + d}_{\hspace{1cm}})$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$25. \quad 10x^2 - 11x - 6 = \underline{(5x \quad \quad)(2x \quad \quad)}$$

$$26. \quad 4x^2 - 11x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$25. \quad 10x^2 - 11x - 6 = \underline{(5x + 2)(2x - 3)}$$

$$26. \quad 4x^2 - 11x - 3 = \underline{\hspace{2cm}}$$


$$Ex^2 + Fx + G = (\overbrace{ax + b}^{\hspace{1cm}})(\underbrace{cx + d}_{\hspace{1cm}})$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11


Factor each of the following.

$$25. \quad 10x^2 - 11x - 6 = \frac{(5x + 2)(2x - 3)}{\text{ } }$$



$$26. \quad 4x^2 - 11x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$



$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$25. \quad 10x^2 - 11x - 6 = \frac{(5x + 2)(2x - 3)}{4x}$$

The diagram shows a purple bracket above the factors $(5x + 2)$ and $(2x - 3)$ labeled $-15x$, and a purple bracket below the denominator $4x$.

$$26. \quad 4x^2 - 11x - 3 = \underline{\hspace{2cm}}$$

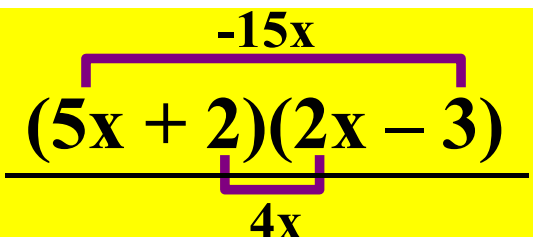
$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

The diagram shows a purple bracket above $(ax + b)$ and $(cx + d)$, and a purple bracket below $(ax + b)$.


$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$25. \quad 10x^2 - 11x - 6 = \frac{(5x + 2)(2x - 3)}{4x}$$


$$26. \quad 4x^2 - 11x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$


$$E = ac \quad G = bd \quad adx + bcx = Fx$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$25. \quad 10x^2 - 11x - 6 = \underline{(5x + 2)(2x - 3)}$$

$$26. \quad 4x^2 - 11x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$25. \quad 10x^2 - 11x - 6 = \underline{(5x + 2)(2x - 3)}$$

$$26. \quad 4x^2 - 11x - 3 = \underline{\hspace{2cm}}$$

$$Ex^2 + Fx + G = (\overbrace{ax + b}^{\hspace{1cm}})(\underbrace{cx + d}_{\hspace{1cm}})$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$25. \quad 10x^2 - 11x - 6 = \underline{(5x + 2)(2x - 3)}$$

$$26. \quad 4x^2 - 11x - 3 = \underline{(4x \quad \quad)(x \quad \quad)}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$25. \quad 10x^2 - 11x - 6 = \underline{(5x + 2)(2x - 3)}$$

$$26. \quad 4x^2 - 11x - 3 = \underline{(4x + 1)(x - 3)}$$


$$Ex^2 + Fx + G = (ax + b)(cx + d)$$


$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$25. \quad 10x^2 - 11x - 6 = \underline{(5x + 2)(2x - 3)}$$

$$26. \quad 4x^2 - 11x - 3 = \underline{(4x + 1)(x - 3)}$$


$$Ex^2 + Fx + G = (ax + b)(cx + d)$$


$$E = ac \quad G = bd \quad \boxed{ad}x + \boxed{bc}x = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$25. \quad 10x^2 - 11x - 6 = \underline{(5x + 2)(2x - 3)}$$

$$26. \quad 4x^2 - 11x - 3 = \underline{(4x + 1)(x - 3)}$$

Diagram illustrating the factoring process for problem 26. A purple bracket above the factors $(4x + 1)$ and $(x - 3)$ is labeled $-12x$, indicating the product of the outer terms. A purple bracket below the same factors is labeled $1x$, indicating the product of the inner terms.

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$25. \quad 10x^2 - 11x - 6 = \underline{(5x + 2)(2x - 3)}$$

$$26. \quad 4x^2 - 11x - 3 = \frac{(4x + 1)(x - 3)}{1x}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \text{ad}x + \text{bc}x = \text{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$25. \quad 10x^2 - 11x - 6 = \underline{(5x + 2)(2x - 3)}$$

$$26. \quad 4x^2 - 11x - 3 = \underline{(4x + 1)(x - 3)}$$

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

Algebra I Class Worksheet #2 Unit 11

Factor each of the following.

$$25. \quad 10x^2 - 11x - 6 = \underline{(5x + 2)(2x - 3)}$$

$$26. \quad 4x^2 - 11x - 3 = (4x + 1)(x - 3)$$

Good luck on your homework !!

$$Ex^2 + Fx + G = (ax + b)(cx + d)$$

$$E = ac \quad G = bd \quad \boxed{a}d\boxed{x} + \boxed{b}c\boxed{x} = \boxed{F}x$$

