General Algebra II Lesson #2 Unit 7 Class Worksheet #2 For Worksheet #2

Square Root

Square Root

$$\sqrt{\frac{9}{16}} = \frac{3}{4}$$

Square Root

$$\sqrt{\frac{9}{16}} = \frac{3}{4}$$
, since $\left(\frac{3}{4}\right)^2 = \frac{9}{16}$

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Note that
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, since $\left(\frac{3}{4}\right)^2 = \frac{9}{16}$

Note that
$$\sqrt{\frac{9}{16}} = \frac{\sqrt{9}}{\sqrt{16}}$$

This illustrates an important property concerning the square root of a fraction.

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Note that
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This illustrates an important property concerning the square root of a fraction.

$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$$

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Cube Root

The Division Property of Square Roots

Square Root

$$\sqrt{\frac{\mathbf{a}}{\mathbf{b}}} = \frac{\sqrt{\mathbf{a}}}{\sqrt{\mathbf{b}}}$$

Square Root

Cube Root

Consider the following problem.

$$\sqrt{\frac{\mathbf{a}}{\mathbf{b}}} = \frac{\sqrt{\mathbf{a}}}{\sqrt{\mathbf{b}}}$$

Square Root

Cube Root

Consider the following problem.

$$\sqrt[3]{\frac{27}{64}} = \frac{3}{4}$$

$$\sqrt{\frac{\mathbf{a}}{\mathbf{b}}} = \frac{\sqrt{\mathbf{a}}}{\sqrt{\mathbf{b}}}$$

Square Root

Cube Root

Consider the following problem.

$$\sqrt[3]{\frac{27}{64}} = \frac{3}{4}$$
, since $\left(\frac{3}{4}\right)^3 = \frac{27}{64}$

$$\sqrt{\frac{\mathbf{a}}{\mathbf{b}}} = \frac{\sqrt{\mathbf{a}}}{\sqrt{\mathbf{b}}}$$

Square Root

Cube Root

Consider the following problem.

$$\sqrt[3]{\frac{27}{64}} = \frac{3}{4}$$
, since $\left(\frac{3}{4}\right)^3 = \frac{27}{64}$

Note that
$$\sqrt[3]{\frac{27}{64}} = \frac{\sqrt[3]{27}}{\sqrt[3]{64}}$$

$$\sqrt{\frac{\mathbf{a}}{\mathbf{b}}} = \frac{\sqrt{\mathbf{a}}}{\sqrt{\mathbf{b}}}$$

Square Root

Cube Root

Consider the following problem.

$$\sqrt[3]{\frac{27}{64}} = \frac{3}{4}$$
, since $\left(\frac{3}{4}\right)^3 = \frac{27}{64}$

Note that
$$\sqrt[3]{\frac{27}{64}} = \frac{\sqrt[3]{27}}{\sqrt[3]{64}}$$

This illustrates an important property concerning the cube root of a fraction.

$$\sqrt{\frac{\mathbf{a}}{\mathbf{b}}} = \frac{\sqrt{\mathbf{a}}}{\sqrt{\mathbf{b}}}$$

Square Root

The Division Property of Square Roots

$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$$

Cube Root

Consider the following problem.

$$\sqrt[3]{\frac{27}{64}} = \frac{3}{4}$$
, since $\left(\frac{3}{4}\right)^3 = \frac{27}{64}$

Note that
$$\sqrt[3]{\frac{27}{64}} = \frac{\sqrt[3]{27}}{\sqrt[3]{64}}$$

This illustrates an important property concerning the cube root of a fraction.

$$\sqrt[3]{\frac{a}{b}} = \frac{\sqrt[3]{a}}{\sqrt[3]{b}}$$

Square Root and Cube Root of Fractions and DecimalsSquare RootCube Root

The Division Property of Square Roots

$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$$

$$\sqrt[3]{\frac{a}{b}} = \frac{\sqrt[3]{a}}{\sqrt[3]{b}}$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

1.
$$\sqrt{\frac{1}{4}} =$$

2.
$$\sqrt[3]{\frac{1}{27}} =$$

3.
$$\sqrt{\frac{16}{49}} =$$
 4. $\sqrt[3]{\frac{-8}{27}} =$

The Division Property of Square Roots

$$\sqrt{\frac{\mathbf{a}}{\mathbf{b}}} = \frac{\sqrt{\mathbf{a}}}{\sqrt{\mathbf{b}}}$$

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If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

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$$\sqrt[3]{\frac{1}{27}} =$$

 $\frac{1}{27}$ is a perfect cube.

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The Division Property of Square Roots

$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$$

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The Division Property of Square Roots

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The Division Property of Square Roots

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 $\frac{1}{4}$ is a perfect square.

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The Division Property of Square Roots \sqrt{a}

$$\sqrt{\frac{\mathbf{a}}{\mathbf{b}}} = \frac{\sqrt{\mathbf{a}}}{\sqrt{\mathbf{b}}}$$

If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

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 $\frac{1}{27}$ is a perfect cube.

4.
$$\sqrt[3]{\frac{-8}{27}} =$$

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 $\frac{16}{49}$ is a perfect square.

The Division Property of Square Roots $\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$ If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

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1.
$$\sqrt{\frac{1}{4}} = \frac{\sqrt{1}}{\sqrt{4}} = \frac{1}{\frac{1}{2}}$$

 $\frac{1}{4}$ is a perfect square.

 $3. \quad \sqrt{\frac{16}{49}} = \frac{\sqrt{16}}{\sqrt{49}} = \frac{4}{7}$

 $\frac{16}{49}$ is a perfect square.

The Division Property of Square Roots $\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$ If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

2.
$$\sqrt[3]{\frac{1}{27}} = \frac{\sqrt[3]{1}}{\sqrt[3]{27}} = \frac{1}{3}$$

 $\frac{1}{27}$ is a perfect cube.

4.
$$\sqrt[3]{\frac{-8}{27}} = \frac{\sqrt[3]{-8}}{\sqrt[3]{27}} = \frac{-2}{3}$$

 $\frac{-8}{27}$ is a perfect cube.

$$\sqrt[3]{\frac{a}{b}} = \frac{\sqrt[3]{a}}{\sqrt[3]{b}}$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

=

6.
$$\sqrt[3]{\frac{7}{8}}$$

$$\sqrt{\frac{\mathbf{a}}{\mathbf{b}}} = \frac{\sqrt{\mathbf{a}}}{\sqrt{\mathbf{b}}}$$

$$\sqrt[3]{\frac{a}{b}} = \frac{\sqrt[3]{a}}{\sqrt[3]{b}}$$

5.
$$\sqrt{\frac{5}{9}} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

5.
$$\sqrt{\frac{5}{9}} =$$

If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

6.
$$\sqrt[3]{\frac{7}{8}} =$$

The Division Property of Square Roots

$$\sqrt{\frac{\mathbf{a}}{\mathbf{b}}} = \frac{\sqrt{\mathbf{a}}}{\sqrt{\mathbf{b}}}$$

$$\sqrt[3]{\frac{a}{b}} = \frac{\sqrt[3]{a}}{\sqrt[3]{b}}$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

5. $\sqrt{\frac{5}{9}} = \frac{5}{9}$ is not a perfect square.

If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

6.
$$\sqrt[3]{\frac{7}{8}} =$$

The Division Property of Square Roots

$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$$

$$\sqrt[3]{\frac{a}{b}} = \frac{\sqrt[3]{a}}{\sqrt[3]{b}}$$

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The Division Property of Square Roots

$$\sqrt{\frac{\mathbf{a}}{\mathbf{b}}} = \frac{\sqrt{\mathbf{a}}}{\sqrt{\mathbf{b}}}$$

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General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

5. $\sqrt{\frac{5}{9}} =$

Step 1: Express the fraction with an equivalent fraction whose denominator is a perfect square.

If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

6.
$$\sqrt[3]{\frac{7}{8}} =$$

The Division Property of Square Roots

$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$$

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General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

5. $\sqrt{\frac{5}{9}} =$

The denominator is already a perfect square.

Step 1: Express the fraction with an equivalent fraction whose denominator is a perfect square.

If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

6.
$$\sqrt[3]{\frac{7}{8}} =$$

The Division Property of Square Roots

$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$$

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5. $\sqrt{\frac{5}{9}} =$

Step 1: Express the fraction with an equivalent fraction whose denominator is a perfect square.

Step 2: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

6.
$$\sqrt[3]{\frac{7}{8}} =$$

The Division Property of Square Roots $\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$

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General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

$$5. \quad \sqrt{\frac{5}{9}} \\ = \frac{\sqrt{5}}{\sqrt{9}}$$

Step 1: Express the fraction with an equivalent fraction whose denominator is a perfect square.

=

Step 2: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

$$5. \quad \sqrt[3]{\frac{7}{8}} =$$

The Division Property of Square Roots $\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$

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General Algebra II Class Worksheet #2 Unit 7

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If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

$$5. \quad \sqrt{\frac{5}{9}} \\ = \frac{\sqrt{5}}{\sqrt{9}}$$

Step 1: Express the fraction with an equivalent fraction whose denominator is a perfect square.

=

Step 2: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

$$5. \quad \sqrt[3]{\frac{7}{8}} =$$

The Division Property of Square Roots

$$\sqrt{\frac{\mathbf{a}}{\mathbf{b}}} = \frac{\sqrt{\mathbf{a}}}{\sqrt{\mathbf{b}}}$$

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General Algebra II Class Worksheet #2 Unit 7

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If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

$$5. \quad \sqrt{\frac{5}{9}} \\ = \frac{\sqrt{5}}{\sqrt{9}}$$

Step 1: Express the fraction with an equivalent fraction whose denominator is a perfect square.

_

Step 2: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

Step 3: Evaluate the square root of the denominator.

If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

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$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$$

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General Algebra II Class Worksheet #2 Unit 7

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If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

$$5. \quad \sqrt{\frac{5}{9}} =$$
$$= \frac{\sqrt{5}}{\sqrt{9}} = \frac{\sqrt{5}}{3}$$

Step 1: Express the fraction with an equivalent fraction whose denominator is a perfect square.

Step 2: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

Step 3: Evaluate the square root of the denominator.

If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

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If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

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Step 3: Evaluate the square root of the denominator.

Step 4: Express the numerator in <u>standard radical</u> <u>form</u>.

The Division Property of Square Roots

$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$$

If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

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$$\sqrt[3]{\frac{a}{b}} = \frac{\sqrt[3]{a}}{\sqrt[3]{b}}$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

5.
$$\sqrt{\frac{5}{9}} =$$

= $\frac{\sqrt{5}}{\sqrt{9}} = \frac{\sqrt{5}}{3}$ The numerator is already in standard radical form.

Step 1: Express the fraction with an equivalent fraction whose denominator is a perfect square.

Step 2: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

Step 3: Evaluate the square root of the denominator.

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6.
$$\sqrt[3]{\frac{7}{8}} = \frac{7}{8}$$
 is not a perfect cube.

$$\sqrt[3]{\frac{a}{b}} = \frac{\sqrt[3]{a}}{\sqrt[3]{b}}$$

General Algebra II Class Worksheet #2 Unit 7

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6.
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The denominator is already a perfect cube.
Step 1: Express the fraction with an equivalent
fraction whose denominator is a perfect cube.

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General Algebra II Class Worksheet #2 Unit 7

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$$\sqrt[3]{\frac{a}{b}} = \frac{\sqrt[3]{a}}{\sqrt[3]{b}}$$

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The Division Property of Square Roots

$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$$

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General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

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The Division Property of Square Roots

$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$$

If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

8.
$$\sqrt[3]{\frac{2}{3}} =$$

= $\sqrt[3]{\frac{18}{27}} = \frac{\sqrt[3]{18}}{\sqrt[3]{27}} = \frac{\sqrt[3]{18}}{3}$

Step 1: Express the fraction with an equivalent fraction whose denominator is a perfect cube.

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$$\sqrt[3]{\frac{a}{b}} = \frac{\sqrt[3]{a}}{\sqrt[3]{b}}$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

9.
$$\sqrt{\frac{9}{10}} = \sqrt{\frac{90}{100}} = \frac{\sqrt{90}}{\sqrt{100}} =$$
$$= \frac{\sqrt{90}}{10} = \frac{\sqrt{9} \cdot \sqrt{10}}{10} = \frac{3\sqrt{10}}{10} = \frac{3}{10}\sqrt{10}$$

Step 1: Express the fraction with an equivalent fraction whose denominator is a perfect square.

Step 2: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

Step 3: Evaluate the square root of the denominator.

Step 4: Express the numerator in <u>standard radical</u> <u>form</u>.

The Division Property of Square Roots

$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$$

If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

10.
$$\sqrt[3]{\frac{-8}{9}} = \sqrt[3]{\frac{-24}{27}} = \frac{\sqrt[3]{-24}}{\sqrt[3]{27}} =$$

= $\frac{\sqrt[3]{-24}}{3} = \frac{\sqrt[3]{-8} \cdot \sqrt[3]{3}}{3} = \frac{-2\sqrt[3]{3}}{3}$

Step 1: Express the fraction with an equivalent fraction whose denominator is a perfect cube.

Step 2: Apply the <u>division property of cube roots</u> to express the problem as a quotient of cube roots.

Step 3: Evaluate the cube root of the denominator.

Step 4: Express the numerator in <u>standard radical</u> <u>form</u>.

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General Algebra II Class Worksheet #2 Unit 7

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Step 2: Apply the <u>division property of cube roots</u> to express the problem as a quotient of cube roots.

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$$\sqrt[3]{\frac{a}{b}} = \frac{\sqrt[3]{a}}{\sqrt[3]{b}}$$

General Algebra II Class Worksheet #2 Unit 7

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Step 2: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

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Step 1: Express the fraction with an equivalent fraction whose denominator is a perfect cube.

Step 2: Apply the <u>division property of cube roots</u> to express the problem as a quotient of cube roots.

Step 3: Evaluate the cube root of the denominator.

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General Algebra II Class Worksheet #2 Unit 7

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Step 1: Express the fraction with an equivalent fraction whose denominator is a perfect square.

Step 2: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

Step 3: Evaluate the square root of the denominator.

Step 4: Express the numerator in <u>standard radical</u> <u>form</u>.

The Division Property of Square Roots

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If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

$$10. \quad \sqrt[3]{\frac{-8}{9}} = \sqrt[3]{\frac{-24}{27}} = \frac{\sqrt[3]{-24}}{\sqrt[3]{27}} =$$
$$= \frac{\sqrt[3]{-24}}{3} = \frac{\sqrt[3]{-8} \cdot \sqrt[3]{3}}{3} = \frac{-2\sqrt[3]{3}}{3} = \frac{-$$

Step 1: Express the fraction with an equivalent fraction whose denominator is a perfect cube.

Step 2: Apply the <u>division property of cube roots</u> to express the problem as a quotient of cube roots.

Step 3: Evaluate the cube root of the denominator.

Step 4: Express the numerator in <u>standard radical</u> <u>form</u>.

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General Algebra II Class Worksheet #2 Unit 7

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General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>. If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

12.
$$\sqrt[3]{0.125} =$$

11. $\sqrt{0.36} =$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

11.
$$\sqrt{0.36} =$$

12.
$$\sqrt[3]{0.125} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

11. $\sqrt{0.36} =$

0.36 is a perfect square.

12.
$$\sqrt[3]{0.125} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

11.
$$\sqrt{0.36} =$$

12.
$$\sqrt[3]{0.125} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

11.
$$\sqrt{0.36} = 0.6$$

12.
$$\sqrt[3]{0.125} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

11. $\sqrt{0.36} = 0.6$ $0.6^2 = 0.36$

12.
$$\sqrt[3]{0.125} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

11. $\sqrt{0.36} = 0.6$ $0.6^2 = 0.36$

12.
$$\sqrt[3]{0.125} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>. If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

12.
$$\sqrt[3]{0.125} =$$

11. $\sqrt{0.36} = 0.6$

 $0.6^2 = 0.36$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

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If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

11. $\sqrt{0.36} = 0.6$ $0.6^2 = 0.36$ If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

12. $\sqrt[3]{0.125} =$

0.125 is a perfect cube.

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

11. $\sqrt{0.36} = 0.6$ $0.6^2 = 0.36$

12.
$$\sqrt[3]{0.125} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

11. $\sqrt{0.36} = 0.6$ $0.6^2 = 0.36$

12.
$$\sqrt[3]{0.125} = 0.5$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

11. $\sqrt{0.36} = 0.6$ $0.6^2 = 0.36$

12.
$$\sqrt[3]{0.125} = 0.5$$

 $0.5^3 = 0.125$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

11. $\sqrt{0.36} = 0.6$ $0.6^2 = 0.36$

12.
$$\sqrt[3]{0.125} = 0.5$$

 $0.5^3 = 0.125$

General Algebra II Class Worksheet #2 Unit 7

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 $0.5^3 = 0.125$

General Algebra II Class Worksheet #2 Unit 7

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If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>. If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

13.
$$\sqrt{1.5} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>. If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

13.
$$\sqrt{1.5} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>. If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

13. $\sqrt{1.5} =$

1.5 is not a perfect square.

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>. If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

13.
$$\sqrt{1.5} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

13. $\sqrt{1.5} =$

Step 1: Express the decimal as a fraction in lowest terms.

14.
$$\sqrt[3]{-1.6} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

13. $\sqrt{1.5} = \sqrt{\frac{3}{2}}$

If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

14.
$$\sqrt[3]{-1.6} =$$

Step 1: Express the decimal as a fraction in lowest terms.

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14.
$$\sqrt[3]{-1.6} =$$

Step 1: Express the decimal as a fraction in lowest terms.

Step 2: Express the fraction with an equivalent fraction whose denominator is a perfect square.

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

13.
$$\sqrt{1.5} = \sqrt{\frac{3}{2}} = \sqrt{\frac{6}{4}}$$

=

Step 1: Express the decimal as a fraction in lowest terms.

Step 2: Express the fraction with an equivalent fraction whose denominator is a perfect square.

14.
$$\sqrt[3]{-1.6} =$$

General Algebra II Class Worksheet #2 Unit 7

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=

Step 1: Express the decimal as a fraction in lowest terms.

Step 2: Express the fraction with an equivalent fraction whose denominator is a perfect square.

Step 3: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

14.
$$\sqrt[3]{-1.6} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

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$$\sqrt{1.5} = \sqrt{\frac{3}{2}} = \sqrt{\frac{6}{4}} = \frac{\sqrt{6}}{\sqrt{4}}$$

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Step 1: Express the decimal as a fraction in lowest terms.

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13.
$$\sqrt{1.5} = \sqrt{\frac{3}{2}} = \sqrt{\frac{6}{4}}$$

=

Step 1: Express the decimal as a fraction in lowest terms.

Step 2: Express the fraction with an equivalent fraction whose denominator is a perfect square.

Step 3: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

Step 4: Evaluate the square root of the denominator.

14.
$$\sqrt[3]{-1.6} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

13.
$$\sqrt{1.5} = \sqrt{\frac{3}{2}} =$$

= $\sqrt{\frac{6}{4}} = \frac{\sqrt{6}}{\sqrt{4}} = \frac{\sqrt{6}}{2}$

-

Step 1: Express the decimal as a fraction in lowest terms.

Step 2: Express the fraction with an equivalent fraction whose denominator is a perfect square.

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= $\sqrt{\frac{6}{4}} = \frac{\sqrt{6}}{\sqrt{4}} = \frac{\sqrt{6}}{2}$

=

Step 1: Express the decimal as a fraction in lowest terms.

Step 2: Express the fraction with an equivalent fraction whose denominator is a perfect square.

Step 3: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

Step 4: Evaluate the square root of the denominator.

14.
$$\sqrt[3]{-1.6} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

13.
$$\sqrt{1.5} = \sqrt{\frac{3}{2}} =$$

= $\sqrt{\frac{6}{4}} = \frac{\sqrt{6}}{\sqrt{4}} = \frac{\sqrt{6}}{2}$

-

Step 1: Express the decimal as a fraction in lowest terms.

Step 2: Express the fraction with an equivalent fraction whose denominator is a perfect square.

Step 3: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

Step 4: Evaluate the square root of the denominator.

Step 5: Express the numerator in <u>standard radical</u> <u>form</u>.

14.
$$\sqrt[3]{-1.6} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

13.
$$\sqrt{1.5} = \sqrt{\frac{3}{2}} =$$
 14.
= $\sqrt{\frac{6}{4}} = \frac{\sqrt{6}}{\sqrt{4}} = \frac{\sqrt{6}}{2}$ The numerator is already in standard radical form.

Step 1: Express the decimal as a fraction in lowest terms.

Step 2: Express the fraction with an equivalent fraction whose denominator is a perfect square.

Step 3: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

Step 4: Evaluate the square root of the denominator.

14.
$$\sqrt[3]{-1.6} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

13.
$$\sqrt{1.5} = \sqrt{\frac{3}{2}} =$$

= $\sqrt{\frac{6}{4}} = \frac{\sqrt{6}}{\sqrt{4}} = \frac{\sqrt{6}}{2}$

=

Step 1: Express the decimal as a fraction in lowest terms.

Step 2: Express the fraction with an equivalent fraction whose denominator is a perfect square.

Step 3: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

Step 4: Evaluate the square root of the denominator.

Step 5: Express the numerator in <u>standard radical</u> <u>form</u>.

14.
$$\sqrt[3]{-1.6} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

13.
$$\sqrt{1.5} = \sqrt{\frac{3}{2}} =$$

= $\sqrt{\frac{6}{4}} = \frac{\sqrt{6}}{\sqrt{4}} = \frac{\sqrt{6}}{2} = \frac{1}{2}\sqrt{6}$

Step 1: Express the decimal as a fraction in lowest terms.

Step 2: Express the fraction with an equivalent fraction whose denominator is a perfect square.

Step 3: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

Step 4: Evaluate the square root of the denominator.

Step 5: Express the numerator in <u>standard radical</u> <u>form</u>.

14.
$$\sqrt[3]{-1.6} =$$

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$$\sqrt{1.5} = \sqrt{\frac{3}{2}} =$$

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Step 1: Express the decimal as a fraction in lowest terms.

Step 2: Express the fraction with an equivalent fraction whose denominator is a perfect square.

Step 3: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

Step 4: Evaluate the square root of the denominator.

Step 5: Express the numerator in <u>standard radical</u> <u>form</u>.

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$$\sqrt[3]{-1.6} =$$

General Algebra II Class Worksheet #2 Unit 7

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$$\sqrt{1.5} = \sqrt{\frac{3}{2}} =$$

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Step 1: Express the decimal as a fraction in lowest terms.

Step 2: Express the fraction with an equivalent fraction whose denominator is a perfect square.

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Step 4: Evaluate the square root of the denominator.

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14.
$$\sqrt[3]{-1.6} =$$

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

If the radicand is a perfect square, give the exact value. If not, express the square root using <u>standard radical form</u>.

13.
$$\sqrt{1.5} = \sqrt{\frac{3}{2}} =$$

= $\sqrt{\frac{6}{4}} = \frac{\sqrt{6}}{\sqrt{4}} = \frac{\sqrt{6}}{2} = \frac{1}{2}\sqrt{6}$

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If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

14.
$$\sqrt[3]{-1.6} =$$

-1.6 is not a perfect cube.

General Algebra II Class Worksheet #2 Unit 7

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$$\sqrt{1.5} = \sqrt{\frac{3}{2}} =$$

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$$\sqrt[3]{-1.6} = \sqrt[3]{\frac{-8}{5}}$$

Step 1: Express the decimal as a fraction in lowest terms.

General Algebra II Class Worksheet #2 Unit 7

Express each of the following in simplest form.

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$$\sqrt{1.5} = \sqrt{\frac{3}{2}} =$$

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If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

14.
$$\sqrt[3]{-1.6} = \sqrt[3]{\frac{-8}{5}} = \sqrt[3]{\frac{-200}{125}}$$

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Step 2: Express the fraction with an equivalent fraction whose denominator is a perfect square.

Step 3: Apply the <u>division property of square roots</u> to express the problem as a quotient of square roots.

Step 4: Evaluate the square root of the denominator.

Step 5: Express the numerator in <u>standard radical</u> <u>form</u>.

If the radicand is a perfect cube, give the exact value. If not, express the cube root using <u>standard radical form</u>.

$$14. \quad \sqrt[3]{-1.6} = \sqrt[3]{\frac{-8}{5}} = \sqrt[3]{\frac{-200}{125}} = \frac{\sqrt[3]{-200}}{\sqrt[3]{125}} = \frac{\sqrt[3]{-200}}{\sqrt[3]{125}} = \frac{\sqrt[3]{-200}}{\sqrt[3]{125}} = \frac{\sqrt[3]{-200}}{5} = \frac{\sqrt[3]{-200}}{5} = \frac{\sqrt[3]{-200}}{5} = \frac{\sqrt[3]{-200}}{5} = \frac{-2\sqrt[3]{25}}{5} = \frac{-2\sqrt[$$

Step 1: Express the decimal as a fraction in lowest terms.

Step 2: Express the fraction with an equivalent fraction whose denominator is a perfect cube.

Step 3: Apply the <u>division property of cube roots</u> to express the problem as a quotient of cube roots.

Step 4: Evaluate the cube root of the denominator.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
 16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

General Algebra IIClass Worksheet #2Unit 7Perform the indicated operations.Express your answers in simplest form.

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
 16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
 16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

Step 1: Express each square root in standard radical form.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
 16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

Step 1: Express each square root in standard radical form.
General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
 16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

 $=\sqrt{\frac{5}{25}}$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
 16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

$$=\sqrt{\frac{5}{25}}$$
 +

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$

= $\sqrt{\frac{5}{25}} +$

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$

 $= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}}$
Step 1: Express each square root in standard radical form.

=

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$

 $= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}}$
Step 1: Express each square root in

standard radical form.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$

 $= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} =$
16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
 16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} =$$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$

= $\sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}}$

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$

= $\sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} +$

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$

= $\sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} +$

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$

= $\sqrt{\frac{5}{25}} + \frac{\sqrt{\frac{5}{9}}}{\sqrt{\frac{5}{9}}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}}$

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$

= $\sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$

= $\sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$
=

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

15.
$$\sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$

= $\sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$
= $\frac{\sqrt{5}}{5}$

16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} +$$

16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} +$$

16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3}$$

16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} =$$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} =$$

Step 1: Express each square root in standard radical form.

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{\frac{\sqrt{5}}{5}} + \frac{\sqrt{5}}{3} =$$

Step 1: Express each square root in standard radical form.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{\frac{\sqrt{5}}{5}} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15}$$

Step 1: Express each square root in standard radical form.

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} +$$

Step 1: Express each square root in standard radical form.

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} +$$

Step 1: Express each square root in standard radical form.

16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15}$$

Step 1: Express each square root in standard radical form.

16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15} =$$

Step 1: Express each square root in standard radical form.

16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15} =$$

=

Step 1: Express each square root in standard radical form.

16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$

$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$

$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15} =$$

$$= \frac{-15}{15}$$

Step 1: Express each square root in standard radical form.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$

$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$

$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15} =$$

$$= \frac{-15}{15}$$

Step 1: Express each square root in standard radical form.

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} =$$

$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$

$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{\frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15}}{\frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15}} =$$

$$= \frac{8\sqrt{5}}{15}$$

16. $\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \ \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} = \frac{8\sqrt{5}}{15}$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15} =$$
$$= \frac{8\sqrt{5}}{15}$$

Step 1: Express each square root in standard radical form.

 $\sqrt[3]{\frac{1}{9}} =$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} = \frac{8\sqrt{5}}{15} \qquad 16. \quad \sqrt[3]{\frac{3}{8}} + \\ = \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} = \\ = \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15} = \\ = \frac{8\sqrt{5}}{15}$$

Step 1: Express each square root in standard radical form.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} = \frac{8\sqrt{5}}{15}$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15} =$$
$$= \frac{8\sqrt{5}}{15}$$

Step 1: Express each square root in standard radical form.

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} = \frac{8\sqrt{5}}{15}$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15} =$$
$$= \frac{8\sqrt{5}}{15}$$

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} = \frac{8\sqrt{5}}{15}$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15} =$$
$$= \frac{8\sqrt{5}}{15}$$

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} = \frac{8\sqrt{5}}{15}$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15} =$$
$$= \frac{8\sqrt{5}}{15}$$

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

= $\sqrt[3]{\frac{3}{8}}$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} = \frac{8\sqrt{5}}{15}$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15} =$$
$$= \frac{8\sqrt{5}}{15}$$

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

 $=\sqrt[3]{\frac{3}{8}} +$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.
General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} = \frac{8\sqrt{5}}{15}$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15} =$$
$$= \frac{8\sqrt{5}}{15}$$

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

 $=\sqrt[3]{\frac{3}{8}} +$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} = \frac{8\sqrt{5}}{15}$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15} =$$
$$= \frac{8\sqrt{5}}{15}$$

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

$$=\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{3}{27}}$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} = \frac{8\sqrt{5}}{15}$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15} =$$
$$= \frac{8\sqrt{5}}{15}$$

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

$$=\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{3}{27}} =$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} = \frac{8\sqrt{5}}{15}$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15} =$$
$$= \frac{8\sqrt{5}}{15}$$

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

$$=\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{3}{27}} =$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} = \frac{8\sqrt{5}}{15}$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15} =$$
$$= \frac{8\sqrt{5}}{15}$$

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

$$= \sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{3}{27}} = \frac{\sqrt[3]{3}}{\sqrt[3]{8}}$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} = \frac{8\sqrt{5}}{15}$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
$$= \frac{\sqrt{5}}{5} + \frac{\sqrt{5}}{3} = \frac{3\sqrt{5}}{15} + \frac{5\sqrt{5}}{15} =$$
$$= \frac{8\sqrt{5}}{15}$$

16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

$$=\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{3}{27}} = \frac{\sqrt[3]{3}}{\sqrt[3]{8}} +$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$15. \quad \sqrt{\frac{1}{5}} + \sqrt{\frac{5}{9}} = \frac{8\sqrt{5}}{15}$$
$$= \sqrt{\frac{5}{25}} + \sqrt{\frac{5}{9}} = \frac{\sqrt{5}}{\sqrt{25}} + \frac{\sqrt{5}}{\sqrt{9}} =$$
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16.
$$\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{1}{9}} =$$

$$=\sqrt[3]{\frac{3}{8}} + \sqrt[3]{\frac{3}{27}} = \frac{\sqrt[3]{3}}{\sqrt[3]{8}} +$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

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Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator

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Step 1: Express each square root in standard radical form.

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Step 1: Express each cube root in standard radical form.

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Step 1: Express each square root in standard radical form.

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Step 1: Express each square root in standard radical form.

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General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

17.
$$\sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$
 18. $\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$

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 18. $\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$

 $=\sqrt{\frac{14}{16}}$ -

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

17.
$$\sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

 $= \sqrt{\frac{14}{16}} -$
Step 1: Express each square root in
Step 1: Express each cut

standard radical form. Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

17.
$$\sqrt{\frac{7}{8}} = \sqrt{\frac{2}{7}} =$$

 $= \sqrt{\frac{14}{16}} = \sqrt{\frac{14}{49}}$
Step 1: Express each square root in Step 1: Express each

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator and combine like terms.

=
General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

17.
$$\sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$
 18. $\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$

$$=\sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} =$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

17.
$$\sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$
 18. $\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$

$$=\sqrt{\frac{14}{16}}-\sqrt{\frac{14}{49}}=$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

17.
$$\sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

= $\sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}}$

V 16

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

Step 1: Express each square root in standard radical form.

 $\sqrt{16}$

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

17.
$$\sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

= $\sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} -$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

17.
$$\sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

= $\sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} -$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

17.
$$\sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

= $\sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}}$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

17.
$$\sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

= $\sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

17.
$$\sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

= $\sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$
=

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$

$$= \frac{\sqrt{14}}{4}$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$

$$= \frac{\sqrt{14}}{4} -$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$

$$= \frac{\sqrt{14}}{4} -$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$

$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7}$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$

$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7}$$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$

$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} =$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$

$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} =$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$

$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28}$$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$

$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} -$$

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$

$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} -$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$

$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28}$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$

$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28} =$$

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$

$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28} =$$

=

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$

$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28} =$$

$$= -\frac{1}{28}$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$

$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{\frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28}}{\frac{28}{28}} =$$

$$= \frac{-28}{28}$$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} =$$

$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$

$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{\frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28}}{\frac{28}{28}} =$$

$$= \frac{3\sqrt{14}}{28}$$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} = \frac{3\sqrt{14}}{28}$$
$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$
$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28} =$$
$$= \frac{3\sqrt{14}}{28}$$

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} = \frac{3\sqrt{14}}{28}$$
$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$
$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28} =$$
$$= \frac{3\sqrt{14}}{28}$$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} = \frac{3\sqrt{14}}{28}$$
$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$
$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28} =$$
$$= \frac{3\sqrt{14}}{28}$$

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in
standard radical form.Step 2: Use a common denominator
and combine like terms.

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General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} = \frac{3\sqrt{14}}{28}$$
$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$
$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28} =$$
$$= \frac{3\sqrt{14}}{28}$$

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in
standard radical form.Step 2: Use a common denominator
and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} = \frac{3\sqrt{14}}{28}$$
$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$
$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28} =$$
$$= \frac{3\sqrt{14}}{28}$$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

= $\sqrt[3]{\frac{15}{27}}$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} = \frac{3\sqrt{14}}{28}$$
$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$
$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28} =$$
$$= \frac{3\sqrt{14}}{28}$$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

$$=\sqrt[3]{\frac{15}{27}} -$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} = \frac{3\sqrt{14}}{28}$$
$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$
$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28} =$$
$$= \frac{3\sqrt{14}}{28}$$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

$$=\sqrt[3]{\frac{15}{27}}$$
 -

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} = \frac{3\sqrt{14}}{28}$$
$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$
$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28} =$$
$$= \frac{3\sqrt{14}}{28}$$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

$$= \sqrt[3]{\frac{15}{27}} - \sqrt[3]{\frac{15}{125}}$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} = \frac{3\sqrt{14}}{28}$$
$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$
$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28} =$$
$$= \frac{3\sqrt{14}}{28}$$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

$$= \sqrt[3]{\frac{15}{27}} - \sqrt[3]{\frac{15}{125}}$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} = \frac{3\sqrt{14}}{28}$$
$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$
$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28} =$$
$$= \frac{3\sqrt{14}}{28}$$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

$$=\sqrt[3]{\frac{15}{27}} - \sqrt[3]{\frac{15}{125}} =$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} = \frac{3\sqrt{14}}{28}$$
$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$
$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28} =$$
$$= \frac{3\sqrt{14}}{28}$$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

$$= \sqrt[3]{\frac{15}{27}} - \sqrt[3]{\frac{15}{125}} =$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} = \frac{3\sqrt{14}}{28}$$
$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$
$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28} =$$
$$= \frac{3\sqrt{14}}{28}$$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

$$= \sqrt[3]{\frac{15}{27}} - \sqrt[3]{\frac{15}{125}} = \sqrt[3]{\frac{15}{\sqrt[3]{27}}}$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.
General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} = \frac{3\sqrt{14}}{28}$$
$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$
$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28} =$$
$$= \frac{3\sqrt{14}}{28}$$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

$$= \sqrt[3]{\frac{15}{27}} - \sqrt[3]{\frac{15}{125}} = \frac{\sqrt[3]{15}}{\sqrt[3]{27}} -$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} = \frac{3\sqrt{14}}{28}$$
$$= \sqrt{\frac{14}{16}} - \sqrt{\frac{14}{49}} = \frac{\sqrt{14}}{\sqrt{16}} - \frac{\sqrt{14}}{\sqrt{49}} =$$
$$= \frac{\sqrt{14}}{4} - \frac{\sqrt{14}}{7} = \frac{7\sqrt{14}}{28} - \frac{4\sqrt{14}}{28} =$$
$$= \frac{3\sqrt{14}}{28}$$

18.
$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

$$= \sqrt[3]{\frac{15}{27}} - \sqrt[3]{\frac{15}{125}} = \frac{\sqrt[3]{15}}{\sqrt[3]{27}} -$$

Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

$$17. \quad \sqrt{\frac{7}{8}} - \sqrt{\frac{2}{7}} = \frac{3\sqrt{14}}{28}$$
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$$\sqrt[3]{\frac{5}{9}} - \sqrt[3]{\frac{3}{25}} =$$

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Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

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Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form.Step 2: Use a common denominator

Step 2: Use a common denominator and combine like terms.

General Algebra II Class Worksheet #2 Unit 7 Perform the indicated operations. Express your answers in simplest form.

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Step 1: Express each square root in standard radical form.

Step 2: Use a common denominator and combine like terms.

Step 1: Express each cube root in standard radical form. Step 2: Use a common denominato

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$=\sqrt[3]{\frac{15}{27}} - \sqrt[3]{\frac{15}{125}} =$	$\frac{\sqrt[3]{15}}{\sqrt[3]{27}} - \frac{\sqrt[3]{15}}{\sqrt[3]{125}} =$
$= \frac{\sqrt[3]{15}}{3} - \frac{\sqrt[3]{15}}{5} = \frac{5^{3}}{5}$	$\frac{\sqrt[3]{15}}{15} - \frac{3\sqrt[3]{15}}{15} =$
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