## Algebra II

 Lesson \#2 Unit 10 Class Worksheet \#2 For Worksheets \#2 \& \#3
## This lesson will discuss rational exponents.

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Here is a definition.

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$$
8^{(1 / 3)}=
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Here is a definition. $\mathbf{B}^{(1 / \mathrm{n})}=\sqrt[n]{B}$
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Before we continue, it is important that this equation make sense. First, we know that the cube root of 8 is the number which, when cubed, is equal to 8 .

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Now, consider cubing this expression.

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\left[8^{(1 / 3)}\right]^{3}=
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Multiply these exponents.

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First, we know that the cube root of 8 is the number which, when cubed, is equal to 8 .

Now, consider cubing this expression.

$$
\left[8^{(1 / 3)}\right]^{3}=8^{1}
$$

Multiply these exponents.

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\left[8^{(1 / 3)}\right]^{3}=8^{1}=
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$$
\left[8^{(1 / 3)}\right]^{3}=8^{1}=8!!
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First, we know that the cube root of 8 is the number which, when cubed, is equal to 8 .

Now, consider cubing this expression.

$$
\left[8^{(1 / 3)}\right]^{3}=8^{1}=8!!
$$

Therefore, $8^{(1 / 3)}$ is equal to the cube root of 8 .

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Therefore, $\quad 8^{(1 / 3)}=$

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8^{(1 / 3)}=\sqrt[3]{8}
$$

Therefore, $\quad \mathbf{8}^{(1 / 3)}=\mathbf{2}$

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Now, we will evaluate $8^{(2 / 3)}$. Using the properties of exponents,

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8^{(2 / 3)}=\left[8^{(1 / 3)}\right]^{2}
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Another way to approach the same problem is

$$
8^{(2 / 3)}=\left[8^{2}\right]^{(1 / 3)}=\sqrt[3]{8^{2}}=\sqrt[3]{64}
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In general, $\mathbf{B}^{(m / n)}=[\sqrt[n]{B}]^{m}$ or $B^{(m / n)}=\sqrt[n]{B^{m}}$.

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

1. $49^{(1 / 2)}=\quad$ 2. $49^{(-1 / 2)}=\quad$ 3. $49^{(3 / 2)}=$

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2. $49^{(-1 / 2)}=$
3. $49^{(3 / 2)}=$

$$
\mathbf{B}^{(1 / 2)}=
$$

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Evaluate each of the following.

1. $49^{(1 / 2)}=$
2. $49^{(-1 / 2)}=$
3. $49^{(3 / 2)}=$

$$
\mathbf{B}^{(1 / 2)}=\sqrt{\mathbf{B}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

1. $49^{(1 / 2)}=$
$=\sqrt{49}$

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Evaluate each of the following.

1. $49^{(1 / 2)}=$
$=\sqrt{49}$

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Evaluate each of the following.

1. $49^{(1 / 2)}=7$
2. $49^{(-1 / 2)}=$
3. $49^{(3 / 2)}=$
$=\sqrt{49}$

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Evaluate each of the following.

1. $49^{(1 / 2)}=7$
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$=\sqrt{49}$

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2. $49^{(-1 / 2)}=$
3. $49^{(3 / 2)}=$ $=\sqrt{49}$

$$
\mathbf{B}^{(-\mathbf{k})}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

1. $49^{(1 / 2)}=7$
2. $49^{(-1 / 2)}=$
3. $49^{(3 / 2)}=$ $=\sqrt{49}$

$$
\mathbf{B}^{(-k)}=\frac{1}{\mathbf{B}^{k}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\begin{array}{rlrl}
\text { 1. } & 49^{(1 / 2)}=7 & \text { 2. } & 49^{(-1 / 2)}= \\
= & \text { 3. } 49^{(3 / 2)}= \\
=\sqrt{49} & \\
& B^{(-\mathrm{k})}=\frac{1}{\mathbf{B}^{\mathrm{k}}} &
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\text { 1. } \begin{aligned}
49^{(1 / 2)}=7 & \text { 2. } \\
\begin{array}{l}
49 \\
=\sqrt{(-1 / 2)}= \\
49
\end{array} & \frac{1}{49^{(1 / 2)}} \\
& B^{(-k)}=\frac{1}{\mathbf{B}^{k}}
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\text { 1. } \begin{aligned}
& 49^{(1 / 2)}=7 \\
=\sqrt{49} & \text { 2. } 49^{(-1 / 2)}= \\
=\frac{1}{49^{(1 / 2)}}= & \text { 3. } 49^{(3 / 2)}= \\
= &
\end{aligned}
$$

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Evaluate each of the following.

1. $49^{(1 / 2)}=7$
2. $49^{(-1 / 2)}=$
3. $49^{(3 / 2)}=$
$=\sqrt{49}$
$=\frac{1}{49^{(1 / 2)}}=$

$$
\mathbf{B}^{(1 / 2)}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\begin{aligned}
& \text { 1. } 49^{(1 / 2)}=7 \\
&=\sqrt{49} \text { 2. } 49^{(-1 / 2)}= \\
&=\frac{1}{49^{(1 / 2)}}= \\
& B^{(1 / 2)}=\sqrt{B}
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\begin{aligned}
& \text { 1. } 49^{(1 / 2)}=7 \\
&=\sqrt{49}=\frac{1}{49}(-1 / 2)= \\
& 49^{(1 / 2)}=\frac{1}{\sqrt{49}} \\
& B^{(1 / 2)}=\sqrt{B}
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\begin{array}{lll}
\text { 1. } 49^{(1 / 2)}=7 & \text { 2. } 49^{(-1 / 2)}= & \text { 3. } 49^{(3 / 2)}= \\
=\sqrt{49} & =\frac{1}{49^{(1 / 2)}}=\frac{1}{\sqrt{49}} &
\end{array}
$$

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Evaluate each of the following.

$$
\begin{array}{lll}
\text { 1. } & 49^{(1 / 2)}=7 & \text { 2. } 49^{(-1 / 2)}=1 / 7
\end{array} \text { 3. } 49^{(3 / 2)}=
$$

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\begin{array}{lll}
\text { 1. } & 49^{(1 / 2)}=7 & \text { 2. } 49^{(-1 / 2)}=1 / 7
\end{array} \text { 3. } 49^{(3 / 2)}=
$$

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$$
\begin{array}{lll}
\text { 1. } 49^{(1 / 2)}=7 & \text { 2. } 49^{(-1 / 2)}=1 / 7 & \text { 3. } 49^{(3 / 2)}= \\
=\sqrt{49} & =\frac{1}{49^{(1 / 2)}}=\frac{1}{\sqrt{49}}
\end{array}
$$

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Evaluate each of the following.

$$
\begin{array}{lll}
\text { 1. } & 49^{(1 / 2)}=7 & \text { 2. } 49^{(-1 / 2)}=1 / 7 \\
=\sqrt{49} & =\frac{1}{49^{(1 / 2)}}=\frac{1}{\sqrt{49}} & 49^{(3 / 2)}= \\
& \text { B }^{(\mathrm{m} / \mathrm{n})}=
\end{array}
$$

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$$
\begin{array}{lll}
\text { 1. } 49^{(1 / 2)}=7 & \text { 2. } 49^{(-1 / 2)}=1 / 7 & \text { 3. } 49^{(3 / 2)}= \\
=\sqrt{49} & =\frac{1}{49^{(1 / 2)}}=\frac{1}{\sqrt{49}} & \\
& B^{(\mathrm{m} / \mathrm{n})}=[\sqrt[n]{B}]^{\mathrm{m}}
\end{array}
$$

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\begin{array}{lll}
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=\sqrt{49} & =\frac{1}{49^{(1 / 2)}}=\frac{1}{\sqrt{49}} & = \\
& B^{(m / n)}=[\sqrt[n]{B}]^{\mathrm{m}}
\end{array}
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\begin{array}{lll}
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=\sqrt{49} & =\frac{1}{49^{(1 / 2)}}=\frac{1}{\sqrt{49}} & =[\sqrt{49}]^{3} \\
& B^{(\mathrm{m} / \mathrm{n})}=[\sqrt[n]{B}]^{\mathrm{m}}
\end{array}
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1. $49^{(1 / 2)}=7$
2. $49^{(-1 / 2)}=1 / 7$
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$=\sqrt{49}$
$=\frac{1}{49^{(1 / 2)}}=\frac{1}{\sqrt{49}}$
$=[\sqrt{49}]^{3}=$

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$=\sqrt{49}$
$=\frac{1}{49^{(1 / 2)}}=\frac{1}{\sqrt{49}}$
$=[\sqrt{49}]^{3}=7^{3}$

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$$
\begin{array}{lll}
\text { 1. } 49^{(1 / 2)}=7 & \text { 2. } 49^{(-1 / 2)}=1 / 7 & \text { 3. } 49^{(3 / 2)}=343 \\
=\sqrt{49} & =\frac{1}{49^{(1 / 2)}}=\frac{1}{\sqrt{49}} & =[\sqrt{49}]^{3}=7^{3}
\end{array}
$$

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Evaluate each of the following.

$$
\begin{array}{lll}
\text { 1. } 49^{(1 / 2)}=7 & \text { 2. } 49^{(-1 / 2)}=1 / 7 & \text { 3. } 49^{(3 / 2)}=343 \\
=\sqrt{49} & =\frac{1}{49^{(1 / 2)}}=\frac{1}{\sqrt{49}} & =[\sqrt{49}]^{3}=7^{3}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\begin{array}{lll}
\text { 1. } 49^{(1 / 2)}=7 & \text { 2. } 49^{(-1 / 2)}=1 / 7 & \text { 3. } 49^{(3 / 2)}=343 \\
=\sqrt{49} & =\frac{1}{49^{(1 / 2)}}=\frac{1}{\sqrt{49}} & =[\sqrt{49}]^{3}=7^{3}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=$
5. $27^{(2 / 3)}=$
6. $27^{(-2 / 3)}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=$
5. $27^{(2 / 3)}=$
6. $27^{(-2 / 3)}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=$
5. $27^{(2 / 3)}=$
6. $27^{(-2 / 3)}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=$
5. $27^{(2 / 3)}=$
6. $27^{(-2 / 3)}=$

$$
\mathbf{B}^{(1 / \mathbf{n})}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=$
5. $27^{(2 / 3)}=$
6. $27^{(-2 / 3)}=$

$$
B^{(1 / n)}=\sqrt[n]{B}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=$
5. $27^{(2 / 3)}=$
6. $27^{(-2 / 3)}=$ $=$

$$
B^{(1 / n)}=\sqrt[n]{B}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=$
5. $27^{(2 / 3)}=$
6. $27^{(-2 / 3)}=$
$=\sqrt[3]{27}$

$$
B^{(1 / n)}=\sqrt[n]{B}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=$
5. $27^{(2 / 3)}=$
6. $27^{(-2 / 3)}=$
$=\sqrt[3]{27}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=3$
5. $27^{(2 / 3)}=$
6. $27^{(-2 / 3)}=$
$=\sqrt[3]{27}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=3$
5. $27^{(2 / 3)}=$
6. $27^{(-2 / 3)}=$
$=\sqrt[3]{27}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=3$
5. $27^{(2 / 3)}=$
6. $27^{(-2 / 3)}=$
$=\sqrt[3]{27}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=3$
5. $27^{(2 / 3)}=$
6. $27^{(-2 / 3)}=$
$=\sqrt[3]{27}=$

$$
\mathbf{B}^{(\mathbf{m} / \mathbf{n})}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\begin{array}{lll}
\text { 4. } 27^{(1 / 3)}=3 & \text { 5. } 27^{(2 / 3)}= & \text { 6. } 27^{(-2 / 3)}= \\
=\sqrt[3]{27}= & \mathbf{B}^{(m / n)}=[\sqrt[n]{B}]^{\mathrm{m}}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\begin{array}{lll}
\text { 4. } 27^{(1 / 3)}=3 & \text { 5. } 27^{(2 / 3)}= & \text { 6. } 27^{(-2 / 3)}= \\
=\sqrt[3]{27}= & = \\
& \mathbf{B}^{(\mathrm{m} / \mathrm{n})}=[\sqrt[n]{B}]^{\mathrm{m}} &
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\begin{array}{lll}
\text { 4. } 27^{(1 / 3)}=3 & \text { 5. } 27^{(2 / 3)}= & \text { 6. } 27^{(-2 / 3)}= \\
=\sqrt[3]{27}= & =[\sqrt[3]{27}]^{2} \\
& \mathbf{B}^{(\mathrm{m} / \mathrm{n})}=[\sqrt[n]{B}]^{\mathrm{m}} &
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=3$
5. $27^{(2 / 3)}=$
6. $27^{(-2 / 3)}=$
$=\sqrt[3]{27}=\quad=[\sqrt[3]{27}]^{2}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=3$
5. $27^{(2 / 3)}=$
$=\sqrt[3]{27}=\quad=[\sqrt[3]{27}]^{2}=3^{2}$
6. $27^{(-2 / 3)}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\begin{array}{lll}
\text { 4. } 27^{(1 / 3)}=3 & \text { 5. } 27^{(2 / 3)}=9 & \text { 6. } 27^{(-2 / 3)}= \\
=\sqrt[3]{27}= & =[\sqrt[3]{27}]^{2}=3^{2} &
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\begin{aligned}
& \text { 4. } 27^{(1 / 3)}=3 \quad \text { 5. } 27^{(2 / 3)}=9 \\
& =\sqrt[3]{27}=\quad=[\sqrt[3]{27}]^{2}=3^{2}
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\begin{array}{lll}
\text { 4. } 27^{(1 / 3)}=3 & \text { 5. } 27^{(2 / 3)}=9 & \text { 6. } 27^{(-2 / 3)}= \\
=\sqrt[3]{27}= & =[\sqrt[3]{27}]^{2}=3^{2} &
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\begin{array}{lll}
\text { 4. } 27^{(1 / 3)}=3 & \text { 5. } 27^{(2 / 3)}=9 & \text { 6. } 27^{(-2 / 3)}= \\
=\sqrt[3]{27}= & =[\sqrt[3]{27}]^{2}=3^{2} &
\end{array}
$$

$$
\mathbf{B}^{-\mathrm{k}}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\begin{array}{lll}
\text { 4. } 27^{(1 / 3)}=3 & \text { 5. } 27^{(2 / 3)}=9 & \text { 6. } 27^{(-2 / 3)}= \\
=\sqrt[3]{27}= & =[\sqrt[3]{27}]^{2}=3^{2} &
\end{array}
$$

$$
B^{-k}=1 / B^{k}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\text { 4. } \begin{array}{lll}
27^{(1 / 3)}=3 & \text { 5. } 27^{(2 / 3)}=9 & \text { 6. } \\
=\sqrt[37]{(-2 / 3)}= \\
=\sqrt[3]{27}= & =[\sqrt[3]{27}]^{2}=3^{2} & = \\
& & B^{-k}=1 / \mathbf{B}^{k}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\text { 4. } \begin{array}{lll}
27^{(1 / 3)}=3 & \text { 5. } 27^{(2 / 3)}=9 & \text { 6. } \\
=\sqrt{27}(-2 / 3)= \\
=\sqrt[3]{27}= & =[\sqrt[3]{27}]^{2}=3^{2} & =\frac{1}{27^{(2 / 3)}} \\
& B^{-\mathrm{k}}=1 / \mathbf{B}^{\mathrm{k}}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=3$
5. $27^{(2 / 3)}=9$
6. $27^{(-2 / 3)}=$
$=\sqrt[3]{27}=\quad=[\sqrt[3]{27}]^{2}=3^{2}$
$=\frac{1}{27^{(2 / 3)}}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=3$
5. $27^{(2 / 3)}=9$
6. $27^{(-2 / 3)}=$

$$
=\sqrt[3]{27}=\quad=[\sqrt[3]{27}]^{2}=3^{2}
$$

$$
=\frac{1}{27^{(2 / 3)}}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=3$
5. $27^{(2 / 3)}=9$
6. $27^{(-2 / 3)}=1 / 9$
$=\sqrt[3]{27}=\quad=[\sqrt[3]{27}]^{2}=3^{2}$

$$
=\frac{1}{27^{(2 / 3)}}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=3$
5. $27^{(2 / 3)}=9$
6. $27^{(-2 / 3)}=1 / 9$
$=\sqrt[3]{27}=\quad=[\sqrt[3]{27}]^{2}=3^{2}$

$$
=\frac{1}{27^{(2 / 3)}}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=3$
5. $27^{(2 / 3)}=9$
6. $27^{(-2 / 3)}=1 / 9$
$=\sqrt[3]{27}=$
$=[\sqrt[3]{27}]^{2}=3^{2}$
$=\frac{1}{27^{(2 / 3)}}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
4. $27^{(1 / 3)}=3$
5. $27^{(2 / 3)}=9$
6. $27^{(-2 / 3)}=1 / 9$
$=\sqrt[3]{\mathbf{2 7}}=\quad=[\sqrt[3]{27}]^{2}=3^{2}$
$=\frac{1}{27^{(2 / 3)}}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=$
8. $(4 / 25)^{(-3 / 2)}=$
9. $(27 / 64)^{(-2 / 3)}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=$
8. $(4 / 25)^{(-3 / 2)}=$
9. $(27 / 64)^{(-2 / 3)}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=$
8. $(4 / 25)^{(-3 / 2)}=$
9. $(27 / 64)^{(-2 / 3)}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=$
8. $(4 / 25)^{(-3 / 2)}=$
9. $(27 / 64)^{(-2 / 3)}=$

$$
\mathbf{B}^{(1 / 2)}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=\quad$ 8. $(4 / 25)^{(-3 / 2)}=\quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\mathbf{B}^{(1 / 2)}=\sqrt{\mathbf{B}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=$
8. $(4 / 25)^{(-3 / 2)}=$
9. $(27 / 64)^{(-2 / 3)}=$ $=$ $\mathbf{B}^{(1 / 2)}=\sqrt{\mathbf{B}}$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=$
8. $(4 / 25)^{(-3 / 2)}=$
9. $(27 / 64)^{(-2 / 3)}=$
$=\sqrt{4 / 25}$

$$
\mathbf{B}^{(1 / 2)}=\sqrt{\mathbf{B}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=$
8. $(4 / 25)^{(-3 / 2)}=$
9. $(27 / 64)^{(-2 / 3)}=$
$=\sqrt{4 / 25}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad 8 .(4 / 25)^{(-3 / 2)}=\quad$ 9. $(27 / 64)^{(-2 / 3)}=$
$=\sqrt{4 / 25}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5$
8. $(4 / 25)^{(-3 / 2)}=$
9. $(27 / 64)^{(-2 / 3)}=$
$=\sqrt{4 / 25}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=\quad$ 9. $(27 / 64)^{(-2 / 3)}=$
$=\sqrt{4 / 25}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=\quad$ 9. $(27 / 64)^{(-2 / 3)}=$
$=\sqrt{4 / 25}=$
$(\mathrm{A} / \mathrm{B})^{-\mathrm{k}}=$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=\quad$ 9. $(27 / 64)^{(-2 / 3)}=$
$=\sqrt{4 / 25}=$

$$
(A / B)^{-k}=(B / A)^{k}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=\quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{array}{cc}
=\sqrt{4 / 25}= & = \\
& (\mathbf{A} / \mathbf{B})^{-k}=(B / A)^{k}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=\quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{gathered}
=\sqrt{4 / 25}=\quad(25 / 4)^{(3 / 2)} \\
(\mathrm{A} / \mathrm{B})^{-\mathrm{k}}=(\mathrm{B} / \mathbf{A})^{\mathrm{k}}
\end{gathered}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=\quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
=\sqrt{4 / 25}=\quad=(25 / 4)^{(3 / 2)}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=\quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{gathered}
=\sqrt{4 / 25}=\quad(25 / 4)^{(3 / 2)}= \\
\mathbf{B}^{(\mathrm{m} / \mathrm{n})}=
\end{gathered}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=\quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{aligned}
& =\sqrt{4 / 25}=\quad(25 / 4)^{(3 / 2)}= \\
& \\
& B^{(m / n)}=[\sqrt[n]{B}]^{\mathrm{m}}
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=\quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{aligned}
=\sqrt{4 / 25}=\quad & =(25 / 4)^{(3 / 2)}= \\
& = \\
& B^{(m / n)}=[\sqrt[n]{B}]^{m}
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=\quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{array}{ll}
=\sqrt{4 / 25}=\quad & =(25 / 4)^{(3 / 2)}= \\
& =[\sqrt{25 / 4}]^{3} \\
& B^{(m / n)}=[\sqrt[n]{B}]^{m}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=\quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{aligned}
=\sqrt{4 / 25}=\quad & =(25 / 4)^{(3 / 2)}= \\
& =[\sqrt{25 / 4}]^{3}= \\
& =
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=\quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{aligned}
=\sqrt{4 / 25}=\quad & =(25 / 4)^{(3 / 2)}= \\
& =[\sqrt{25 / 4}]^{3}= \\
& =(5 / 2)^{3}
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=\quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{aligned}
=\sqrt{4 / 25}= & =(25 / 4)^{(3 / 2)}= \\
& =[\sqrt{25 / 4}]^{3}= \\
& =(5 / 2)^{3}=
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=125 / 8 \quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{aligned}
=\sqrt{4 / 25}=\quad & =(25 / 4)^{(3 / 2)}= \\
& =[\sqrt{25 / 4}]^{3}= \\
& =(5 / 2)^{3}=
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=125 / 8 \quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{aligned}
=\sqrt{4 / 25}=\quad & =(25 / 4)^{(3 / 2)}= \\
& =[\sqrt{25 / 4}]^{3}= \\
& =(5 / 2)^{3}=
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=125 / 8 \quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{array}{ll}
=\sqrt{4 / 25}=\quad & =(25 / 4)^{(3 / 2)}= \\
& =[\sqrt{25 / 4}]^{3}= \\
& =(5 / 2)^{3}=
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=125 / 8 \quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{aligned}
=\sqrt{4 / 25}=\quad & =(25 / 4)^{(3 / 2)}= \\
& =[\sqrt{25 / 4}]^{3}= \\
& =(5 / 2)^{3}=
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=125 / 8 \quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{aligned}
=\sqrt{4 / 25}=\quad & =(25 / 4)^{(3 / 2)}= \\
& =[\sqrt{25 / 4}]^{3}= \\
& =(5 / 2)^{3}=
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=125 / 8 \quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{array}{ll}
=\sqrt{4 / 25}=\quad & =(25 / 4)^{(3 / 2)}= \\
& =[\sqrt{25 / 4}]^{3}= \\
& =(5 / 2)^{3}=
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=125 / 8 \quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{array}{rlr}
=\sqrt{4 / 25}= & =(25 / 4)^{(3 / 2)}= & =(64 / 27)^{(2 / 3)} \\
& =[\sqrt{25 / 4}]^{3}= & \\
& =(5 / 2)^{3}= & (\mathbf{A} / \mathbf{B})^{-\mathrm{k}}=(\mathbf{B} / A
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=125 / 8 \quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{aligned}
&=\sqrt{4 / 25}=\quad=(25 / 4)^{(3 / 2)}= \\
&=[\sqrt{25 / 4}]^{3}= \\
&=(54 / 2)^{3}=
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=125 / 8 \quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{array}{rll}
=\sqrt{4 / 25}= & =(25 / 4)^{(3 / 2)}= & =(64 / 27)^{(2 / 3)} \\
& =[\sqrt{25 / 4}]^{3}= & \\
& =(5 / 2)^{3}= & \mathbf{B}^{(\mathrm{m} / \mathrm{n})}=
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=125 / 8 \quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{array}{rlr}
=\sqrt{4 / 25}= & =(25 / 4)^{(3 / 2)}= & =(64 / 27)^{(2 / 3)} \\
& =[\sqrt{25 / 4}]^{3}= & \\
& =(5 / 2)^{3}= & B^{(m / n)}=[\sqrt[n]{B}]^{m}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=125 / 8 \quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{array}{lll}
=\sqrt{4 / 25}= & =(25 / 4)^{(3 / 2)}= & =(64 / 27)^{(2 / 3)}= \\
& =[\sqrt{25 / 4}]^{3}= & = \\
& =(5 / 2)^{3}= & \\
& B^{(m / n)}=[\sqrt[n]{B}]^{\mathrm{m}}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=125 / 8 \quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{array}{lll}
=\sqrt{4 / 25}= & =(25 / 4)^{(3 / 2)}= & =(64 / 27)^{(2 / 3)}= \\
& =[\sqrt{25 / 4}]^{3}= & =[\sqrt[3]{64 / 27}]^{2} \\
& =(5 / 2)^{3}= & \\
& B^{(m / n)}=[\sqrt[n]{B}]^{\mathrm{m}}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=125 / 8 \quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{array}{lll}
=\sqrt{4 / 25}= & =(25 / 4)^{(3 / 2)}= & =(64 / 27)^{(2 / 3)}= \\
& =[\sqrt{25 / 4}]^{3}= & =[\sqrt[3]{64 / 27}]^{2}= \\
& =(5 / 2)^{3}= & =
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=125 / 8 \quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{array}{lll}
=\sqrt{4 / 25}= & =(25 / 4)^{(3 / 2)}= & =(64 / 27)^{(2 / 3)}= \\
& =[\sqrt{25 / 4}]^{3}= & =[\sqrt[3]{64 / 27}]^{2}= \\
& =(5 / 2)^{3}= & =(4 / 3)^{2}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=125 / 8 \quad$ 9. $(27 / 64)^{(-2 / 3)}=$

$$
\begin{array}{lll}
=\sqrt{4 / 25}= & =(25 / 4)^{(3 / 2)}= & =(64 / 27)^{(2 / 3)}= \\
& =[\sqrt{25 / 4}]^{3}= & =[\sqrt[3]{64 / 27}]^{2}= \\
& =(5 / 2)^{3}= & =(4 / 3)^{2}=
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.
7. $(4 / 25)^{(1 / 2)}=2 / 5 \quad$ 8. $(4 / 25)^{(-3 / 2)}=125 / 8 \quad$ 9. $(27 / 64)^{(-2 / 3)}=16 / 9$

$$
\begin{array}{lll}
=\sqrt{4 / 25}= & =(25 / 4)^{(3 / 2)}= & =(64 / 27)^{(2 / 3)}= \\
& =[\sqrt{25 / 4}]^{3}= & =[\sqrt[3]{64 / 27}]^{2}= \\
& =(5 / 2)^{3}= & =(4 / 3)^{2}=
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\text { 7. } \begin{array}{rlrl}
(4 / 25)^{(1 / 2)}=2 / 5 & 8 .(4 / 25)^{(-3 / 2)}=125 / 8 & \text { 9. }(27 / 64)^{(-2 / 3)}=16 / 9 \\
=\sqrt{4 / 25}= & =(25 / 4)^{(3 / 2)}= & =(64 / 27)^{(2 / 3)}= \\
=[\sqrt{25 / 4}]^{3}= & =[\sqrt[3]{64 / 27}]^{2}= \\
=(5 / 2)^{3}= & =(4 / 3)^{2}=
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Evaluate each of the following.

$$
\text { 7. } \begin{array}{rll}
(4 / 25)^{(1 / 2)}=2 / 5 & 8 .(4 / 25)^{(-3 / 2)}=125 / 8 & \text { 9. }(27 / 64)^{(-2 / 3)}=16 / 9 \\
=\sqrt{4 / 25}= & =(25 / 4)^{(3 / 2)}= & =(64 / 27)^{(2 / 3)}= \\
=[\sqrt{25 / 4}]^{3}= & =[\sqrt[3]{64 / 27}]^{2}= \\
=(5 / 2)^{3}= & =(4 / 3)^{2}=
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=$
11. $5^{(-1 / 2)}=$
12. $5^{(3 / 2)}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\quad$ 11. $5^{(-1 / 2)}=$ 12. $5^{(3 / 2)}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=$
11. $5^{(-1 / 2)}=$
12. $5^{(3 / 2)}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=$
11. $5^{(-1 / 2)}=$
12. $5^{(3 / 2)}=$

$$
\mathbf{B}^{(1 / 2)}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\quad$ 11. $5^{(-1 / 2)}=\quad$ 12. $5^{(3 / 2)}=$

$$
\mathbf{B}^{(1 / 2)}=\sqrt{\mathbf{B}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.

$$
\begin{array}{rlr}
\text { 10. } \begin{array}{rlr}
5^{(1 / 2)} & =\sqrt{5} & \text { 11. } 5^{(-1 / 2)}= \\
B^{(1 / 2)} & =\sqrt{B} &
\end{array}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5} \quad$ 11. $5^{(-1 / 2)}=\quad$ 12. $5^{(3 / 2)}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5} \quad$ 11. $5^{(-1 / 2)}=\quad$ 12. $5^{(3 / 2)}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5} \quad$ 11. $5^{(-1 / 2)}=\quad$ 12. $5^{(3 / 2)}=$

$$
\mathbf{B}^{(-\mathrm{k})}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5} \quad$ 11. $5^{(-1 / 2)}=\quad$ 12. $5^{(3 / 2)}=$

$$
\mathbf{B}^{(-k)}=\frac{1}{\mathbf{B}^{\mathrm{k}}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$
11. $5^{(-1 / 2)}=$
12. $5^{(3 / 2)}=$

$$
\mathbf{B}^{(-\mathrm{k})}=\frac{\mathbf{1}}{\mathbf{B}^{\mathrm{k}}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$
11. $5^{(-1 / 2)}=$ 12. $5^{(3 / 2)}=$
$=\frac{1}{5^{(1 / 2)}}$

$$
\mathbf{B}^{(-k)}=\frac{\mathbf{1}}{\mathbf{B}^{\mathrm{k}}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$
11. $5^{(-1 / 2)}=$
12. $5^{(3 / 2)}=$

$$
=\frac{1}{5^{(1 / 2)}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$
11. $5^{(-1 / 2)}=$
12. $5^{(3 / 2)}=$

$$
=\frac{1}{5^{(1 / 2)}}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$
11. $5^{(-1 / 2)}=$
12. $5^{(3 / 2)}=$

$$
=\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$
11. $5^{(-1 / 2)}=$
12. $5^{(3 / 2)}=$

$$
=\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5} \cdot \sqrt{5}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$
11. $5^{(-1 / 2)}=$ 12. $5^{(3 / 2)}=$
$=\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5}=$
$=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$

$$
\text { 11. } 5^{(-1 / 2)}=\quad \text { 12. } 5^{(3 / 2)}=
$$

$$
\begin{aligned}
& =\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5}= \\
& \quad=\frac{\sqrt{5}}{\sqrt{25}}
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$

$$
\text { 11. } 5^{(-1 / 2)}=\quad \text { 12. } 5^{(3 / 2)}=
$$

$$
\begin{gathered}
=\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5} \cdot \sqrt{5}= \\
\quad=\frac{\sqrt{5}}{\sqrt{25}}=
\end{gathered}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$

$$
\begin{aligned}
& \text { 11. } 5^{(-1 / 2)}=\frac{\sqrt{5}}{5} \\
& =\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5}= \\
& =\frac{\sqrt{5}}{\sqrt{25}}=
\end{aligned}
$$

$$
\text { 12. } 5^{(3 / 2)}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$

$$
\begin{aligned}
& \text { 11. } 5^{(-1 / 2)}=\frac{\sqrt{5}}{5} \quad \text { 12. } 5^{(3 / 2)}= \\
& =\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5}= \\
& =\frac{\sqrt{5}}{\sqrt{25}}=
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$

$$
\begin{aligned}
& \text { 11. } 5^{(-1 / 2)}=\frac{\sqrt{5}}{5} \quad \text { 12. } 5^{(3 / 2)}= \\
& =\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5}= \\
& =\frac{\sqrt{5}}{\sqrt{25}}=
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$

$$
\begin{array}{ll}
\text { 11. } 5^{(-1 / 2)}=\frac{\sqrt{5}}{5} & \text { 12. } 5^{(3 / 2)}= \\
=\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5}= \\
=\frac{\sqrt{5}}{\sqrt{25}}= & B^{(\mathrm{m} / \mathrm{n})}=
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$

$$
\begin{array}{ll}
\text { 11. } \begin{array}{ll}
5^{(-1 / 2)}=\frac{\sqrt{5}}{5} & \text { 12. } 5^{(3 / 2)}= \\
=\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5}= \\
=\frac{\sqrt{5}}{\sqrt{25}}= & \\
& B^{(\mathrm{m} / \mathrm{n})}=\sqrt[n]{B^{m}}
\end{array}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$

$$
\begin{array}{ll}
\text { 11. } \begin{array}{ll}
5^{(-1 / 2)}=\frac{\sqrt{5}}{5} & \text { 12. } 5^{(3 / 2)}= \\
=\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5}=\sqrt{5}= & = \\
=\frac{\sqrt{5}}{\sqrt{25}}= & B^{(\mathrm{m} / \mathrm{n})}=\sqrt[n]{B^{m}}
\end{array}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$

$$
\begin{array}{ll}
\text { 11. } \begin{array}{ll}
5^{(-1 / 2)}=\frac{\sqrt{5}}{5} & \text { 12. } 5^{(3 / 2)}= \\
=\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5}=\sqrt{5}= & =\sqrt{5^{3}} \\
=\frac{\sqrt{5}}{\sqrt{25}}= & B^{(\mathrm{m} / \mathrm{n})}=\sqrt[n]{B^{m}}
\end{array}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$

$$
\begin{array}{ll}
\text { 11. } 5^{(-1 / 2)}=\frac{\sqrt{5}}{5} & \text { 12. } 5^{(3 / 2)}= \\
=\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5}=\sqrt{5}=\sqrt{5^{3}}= \\
=\frac{\sqrt{5}}{\sqrt{25}}=
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$

$$
\begin{array}{ll}
\text { 11. } 5^{(-1 / 2)}=\frac{\sqrt{5}}{5} & \text { 12. } 5^{(3 / 2)}= \\
=\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5}= & =\sqrt{5^{3}}=\sqrt{125} \\
=\frac{\sqrt{5}}{\sqrt{25}}=
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$

$$
\begin{array}{ll}
\text { 11. } \begin{array}{ll}
5^{(-1 / 2)}=\frac{\sqrt{5}}{5} & \text { 12. } 5^{(3 / 2)}= \\
=\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5}=\sqrt{5}= & =\sqrt{5^{3}}=\sqrt{125}= \\
=\frac{\sqrt{5}}{\sqrt{25}}= & =
\end{array}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$

$$
\begin{array}{ll}
\text { 11. } \begin{array}{ll}
5^{(-1 / 2)}=\frac{\sqrt{5}}{5} & \text { 12. } 5^{(3 / 2)}= \\
=\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5}=\sqrt{5}= & =\sqrt{5^{3}}=\sqrt{125}= \\
=\frac{\sqrt{5}}{\sqrt{25}}= & =\sqrt{25} \cdot \sqrt{5}
\end{array} \quad .
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$

$$
\begin{array}{ll}
\text { 11. } \begin{array}{ll}
5^{(-1 / 2)}=\frac{\sqrt{5}}{5} & \text { 12. } 5^{(3 / 2)}= \\
=\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5}=\sqrt{5}= & =\sqrt{5^{3}}=\sqrt{125}= \\
=\frac{\sqrt{5}}{\sqrt{25}}= & =\sqrt{25} \cdot \sqrt{5}=
\end{array}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$

$$
\begin{array}{ll}
\text { 11. } \begin{array}{ll}
5^{(-1 / 2)}=\frac{\sqrt{5}}{5} & \text { 12. } 5^{(3 / 2)}=5 \sqrt{5} \\
=\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5}=\sqrt{5}= & =\sqrt{5^{3}}=\sqrt{125}= \\
=\frac{\sqrt{5}}{\sqrt{25}}= & =\sqrt{25} \cdot \sqrt{5}=
\end{array}
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$

$$
\text { 11. } \begin{aligned}
5^{(-1 / 2)}=\frac{\sqrt{5}}{5} & \text { 12. } 5^{(3 / 2)}=5 \sqrt{5} \\
=\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5}=\sqrt{5}= & =\sqrt{5^{3}}=\sqrt{125}= \\
=\frac{\sqrt{5}}{\sqrt{25}}= & =\sqrt{25} \cdot \sqrt{5}=
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
10. $5^{(1 / 2)}=\sqrt{5}$

$$
\text { 11. } \begin{aligned}
5^{(-1 / 2)}=\frac{\sqrt{5}}{5} & \text { 12. } 5^{(3 / 2)}=5 \sqrt{5} \\
=\frac{1}{5^{(1 / 2)}}=\frac{1}{\sqrt{5}} \cdot \sqrt{5}=\sqrt{5}= & =\sqrt{5^{3}}=\sqrt{125}= \\
=\frac{\sqrt{5}}{\sqrt{25}}= & =\sqrt{25} \cdot \sqrt{5}=
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=$
14. $18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=$
14. $18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=$
14. $18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=$
14. $18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$

$$
\mathbf{B}^{(-k)}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=$
14. $18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$

$$
\mathbf{B}^{(-\mathrm{k})}=\frac{1}{\mathbf{B}^{\mathrm{k}}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=$
14. $18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$

$$
\mathbf{B}^{(-\mathrm{k})}=\frac{\mathbf{1}}{\mathbf{B}^{\mathrm{k}}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=$
14. $18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$

$$
=\frac{1}{5^{(3 / 2)}}
$$

$$
\mathbf{B}^{(-k)}=\frac{1}{\mathbf{B}^{\mathrm{k}}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=$
14. $18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$

$$
=\frac{1}{5^{(3 / 2)}}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=$
14. $18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$
$=\frac{1}{5^{(3 / 2)}}=$

$$
\mathbf{B}^{(\mathbf{m} / \mathbf{n})}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=$
14. $18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$

$$
=\frac{1}{5^{(3 / 2)}}=
$$

$$
\mathbf{B}^{(m / n)}=\sqrt[n]{B^{m}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=$
14. $18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}$

$$
\left.B^{(m / n}\right)=\sqrt[n]{B^{m}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\quad$ 14. $18^{(1 / 2)}=\quad$ 15. $18^{(-1 / 2)}=$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\quad$ 14. $18^{(1 / 2)}=\quad$ 15. $18^{(-1 / 2)}=$

$$
\begin{aligned}
& =\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}= \\
& =\frac{1}{\sqrt{125}}
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=$ 14. $18^{(1 / 2)}=15.18^{(-1 / 2)}=$

$$
\begin{aligned}
& =\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}= \\
& =\frac{1}{\sqrt{125}} \cdot \sqrt{5}
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\quad$ 14. $18^{(1 / 2)}=\quad$ 15. $18^{(-1 / 2)}=$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\quad$ 14. $18^{(1 / 2)}=\quad$ 15. $18^{(-1 / 2)}=$

$$
\begin{aligned}
& =\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}= \\
& =\frac{1}{\sqrt{125}} \cdot \sqrt{5} \\
& =\frac{\sqrt{5}}{\sqrt{625}}
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\quad$ 14. $18^{(1 / 2)}=\quad$ 15. $18^{(-1 / 2)}=$

$$
\begin{aligned}
& =\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}= \\
& =\frac{1}{\sqrt{125}} \cdot \sqrt{5} \\
& =\frac{\sqrt{5}}{\sqrt{625}}=
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25} \quad$ 14. $18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\frac{\sqrt{5}}{\sqrt{625}}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25} \quad$ 14. $\quad 18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\frac{\sqrt{5}}{\sqrt{625}}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25} \quad$ 14. $\quad 18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\frac{\sqrt{5}}{\sqrt{625}}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25} \quad$ 14. $\quad 18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\frac{\sqrt{5}}{\sqrt{625}}=$

$$
\mathbf{B}^{(1 / 2)}=
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25} \quad$ 14. $\quad 18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$

$$
=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=
$$

$$
=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=
$$

$$
=\frac{\sqrt{5}}{\sqrt{625}}=
$$

$$
\mathbf{B}^{(1 / 2)}=\sqrt{\mathbf{B}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25} \quad$ 14. $\quad 18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$

$$
=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=
$$

$$
=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=
$$

$$
=\frac{\sqrt{5}}{\sqrt{625}}=
$$

$$
\mathbf{B}^{(1 / 2)}=\sqrt{\mathbf{B}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25} \quad$ 14. $\quad 18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$

$$
=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=\quad=\sqrt{18}
$$

$$
=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=
$$

$$
=\frac{\sqrt{5}}{\sqrt{625}}=
$$

$$
\mathbf{B}^{(1 / 2)}=\sqrt{\mathbf{B}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25} \quad$ 14. $\quad 18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=\quad=\sqrt{18}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\frac{\sqrt{5}}{\sqrt{625}}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25} \quad$ 14. $\quad 18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$

$$
\begin{array}{ll}
=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}= & =\sqrt{18}= \\
=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=\sqrt{5} & =\sqrt{9} \cdot \sqrt{2} \\
=\frac{\sqrt{5}}{\sqrt{625}}= &
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25} \quad$ 14. $\quad 18^{(1 / 2)}=$
15. $18^{(-1 / 2)}=$

$$
\begin{array}{ll}
=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}= & =\sqrt{18}= \\
=\frac{1}{\sqrt{125}} \cdot \sqrt{5} & =\sqrt{5} \\
=\frac{\sqrt{5}}{\sqrt{625}}= &
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25}$
14. $18^{(1 / 2)}=3 \sqrt{2}$
15. $18^{(-1 / 2)}=$

$$
\begin{array}{ll}
=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}= & =\sqrt{18}= \\
=\frac{1}{\sqrt{125}} \cdot \sqrt{5} & =\sqrt{5} \cdot \sqrt{2}= \\
=\frac{\sqrt{5}}{\sqrt{625}}= &
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25} \quad$ 14. $18^{(1 / 2)}=3 \sqrt{2} \quad$ 15. $18^{(-1 / 2)}=$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=\quad=\sqrt{18}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=\quad=\sqrt{9} \cdot \sqrt{2}=$
$=\frac{\sqrt{5}}{\sqrt{625}}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25}$
14. $18^{(1 / 2)}=3 \sqrt{2}$
15. $18^{(-1 / 2)}=$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=\quad=\sqrt{18}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=\quad=\sqrt{9} \cdot \sqrt{2}=$
$=\frac{\sqrt{5}}{\sqrt{625}}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25}$
14. $18^{(1 / 2)}=3 \sqrt{2}$
15. $18^{(-1 / 2)}=$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=\quad=\sqrt{18}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=\quad=\sqrt{9} \cdot \sqrt{2}=$
$\mathbf{B}^{(-\mathrm{k})}=$
$=\frac{\sqrt{5}}{\sqrt{625}}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25}$
14. $18^{(1 / 2)}=3 \sqrt{2}$
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$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=\quad=\sqrt{9} \cdot \sqrt{2}=$

$$
\mathbf{B}^{(-\mathrm{k})}=\frac{\mathbf{1}}{\mathbf{B}^{\mathbf{k}}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25}$
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$=\sqrt{18}=$
$=\sqrt{9} \cdot \sqrt{2}=$

$$
\mathbf{B}^{(-\mathrm{k})}=\frac{\mathbf{1}}{\mathbf{B}^{\mathbf{k}}}
$$

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$=\sqrt{18}=$
$=\frac{1}{18^{(1 / 2)}}$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\sqrt{9} \cdot \sqrt{2}=$

$$
\mathbf{B}^{(-k)}=\frac{\mathbf{1}}{\mathbf{B}^{\mathbf{k}}}
$$

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$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=\sqrt{\mathbf{1 8}}=$
$=\frac{1}{18^{(1 / 2)}}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\sqrt{9} \cdot \sqrt{2}=$
$=\frac{\sqrt{5}}{\sqrt{625}}=$

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$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=\sqrt{18}=$
$=\frac{1}{18^{(1 / 2)}}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\sqrt{9} \cdot \sqrt{2}=$
$=\frac{\sqrt{5}}{\sqrt{625}}=$

$$
\mathbf{B}^{(1 / 2)}=
$$

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$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=\sqrt{18}=$
$=\frac{1}{18^{(1 / 2)}}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\sqrt{9} \cdot \sqrt{2}=$
$=\frac{\sqrt{5}}{\sqrt{625}}=$

$$
\mathbf{B}^{(1 / 2)}=\sqrt{\mathbf{B}}
$$

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13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25}$
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$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=\sqrt{18}=$
$=\frac{1}{18^{(1 / 2)}}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\sqrt{9} \cdot \sqrt{2}=$
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\mathbf{B}^{(1 / 2)}=\sqrt{\mathbf{B}}
$$

## Algebra II Class Worksheet \#2 Unit 10

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$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=\sqrt{18}=$
$=\frac{1}{18^{(1 / 2)}}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\sqrt{9} \cdot \sqrt{2}=$

$$
=\frac{1}{\sqrt{18}}
$$

$$
\mathbf{B}^{(1 / 2)}=\sqrt{\mathbf{B}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25}$
14. $18^{(1 / 2)}=3 \sqrt{2}$
15. $18^{(-1 / 2)}=$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=\sqrt{\mathbf{1 8}}=$
$=\frac{1}{18^{(1 / 2)}}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\sqrt{9} \cdot \sqrt{2}=$
$=\frac{1}{\sqrt{18}}$
$=\frac{\sqrt{5}}{\sqrt{625}}=$

## Algebra II Class Worksheet \#2 Unit 10

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14. $18^{(1 / 2)}=3 \sqrt{2}$
15. $18^{(-1 / 2)}=$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=\sqrt{\mathbf{1 8}}=$
$=\frac{1}{18^{(1 / 2)}}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\sqrt{9} \cdot \sqrt{2}=$
$=\frac{1}{\sqrt{18}} \cdot \sqrt{2}$
$=\frac{\sqrt{5}}{\sqrt{625}}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25}$
14. $18^{(1 / 2)}=3 \sqrt{2}$
15. $18^{(-1 / 2)}=$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=\sqrt{\mathbf{1 8}}=$
$=\frac{1}{18^{(1 / 2)}}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\sqrt{9} \cdot \sqrt{2}=$
$=\frac{1}{\sqrt{18}} \cdot \sqrt{2}=$
$=\frac{\sqrt{5}}{\sqrt{625}}=$
$=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25}$
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15. $18^{(-1 / 2)}=$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=\sqrt{18}=$
$=\frac{1}{18^{(1 / 2)}}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\sqrt{9} \cdot \sqrt{2}=$
$=\frac{1}{\sqrt{18}} \cdot \sqrt{2}=$
$=\frac{\sqrt{5}}{\sqrt{625}}=$
$=\frac{\sqrt{2}}{\sqrt{36}}$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25}$
14. $18^{(1 / 2)}=3 \sqrt{2}$
15. $18^{(-1 / 2)}=$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=\sqrt{18}=$
$=\frac{1}{18^{(1 / 2)}}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\sqrt{9} \cdot \sqrt{2}=$
$=\frac{1}{\sqrt{18}} \cdot \sqrt{2}=$
$=\frac{\sqrt{5}}{\sqrt{625}}=$
$=\frac{\sqrt{2}}{\sqrt{36}}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25}$
14. $18^{(1 / 2)}=3 \sqrt{2}$
15. $18^{(-1 / 2)}=\frac{\sqrt{2}}{6}$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=\sqrt{18}=$
$=\frac{1}{18^{(1 / 2)}}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\sqrt{9} \cdot \sqrt{2}=$
$=\frac{1}{\sqrt{18}} \cdot \sqrt{2}=$
$=\frac{\sqrt{5}}{\sqrt{625}}=$
$=\frac{\sqrt{2}}{\sqrt{36}}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
13. $5^{(-3 / 2)}=\frac{\sqrt{5}}{25}$
14. $18^{(1 / 2)}=3 \sqrt{2}$
15. $18^{(-1 / 2)}=\frac{\sqrt{2}}{6}$
$=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}=$
$=\sqrt{18}=$
$=\frac{1}{18^{(1 / 2)}}=$
$=\frac{1}{\sqrt{125}} \cdot \sqrt{5}=$
$=\sqrt{9} \cdot \sqrt{2}=$
$=\frac{1}{\sqrt{18}} \cdot \sqrt{2}=$
$=\frac{\sqrt{5}}{\sqrt{625}}=$
$=\frac{\sqrt{2}}{\sqrt{36}}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.

$$
\text { 13. } \begin{array}{rll} 
& 5^{(-3 / 2)}=\frac{\sqrt{5}}{25} & \text { 14. } \\
18^{(1 / 2)}=3 \sqrt{2} & \text { 15. } 18^{(-1 / 2)}=\frac{\sqrt{2}}{6} \\
=\frac{1}{5^{(3 / 2)}}=\frac{1}{\sqrt{5^{3}}}= & =\sqrt{18}= & =\frac{1}{18^{(1 / 2)}}= \\
=\frac{1}{\sqrt{125}} \cdot \sqrt{5}= & =\sqrt{5} \cdot \sqrt{2}= & =\frac{1}{\sqrt{18}} \cdot \sqrt{2}= \\
=\frac{\sqrt{5}}{\sqrt{625}}= & & =\frac{\sqrt{2}}{\sqrt{36}}=
\end{array}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
16. $(5 / 9)^{(1 / 2)}=\quad 17$. $(5 / 9)^{(-1 / 2)}=\quad 18$. $(3 / 8)^{(-1 / 2)}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
16. $(5 / 9)^{(1 / 2)}=\quad$ 17. $(5 / 9)^{(-1 / 2)}=\quad 18 .(3 / 8)^{(-1 / 2)}=$

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$$
\mathbf{B}^{(1 / 2)}=
$$

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Express each of the following using standard radical form.
16. $(5 / 9)^{(1 / 2)}=\quad$ 17. $(5 / 9)^{(-1 / 2)}=\quad 18 .(3 / 8)^{(-1 / 2)}=$

$$
\mathbf{B}^{(1 / 2)}=\sqrt{\mathbf{B}}
$$

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Express each of the following using standard radical form.
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Express each of the following using standard radical form.
16. $(5 / 9)^{(1 / 2)}=\quad 17$. $(5 / 9)^{(-1 / 2)}=\quad 18$. $(3 / 8)^{(-1 / 2)}=$

$$
=\sqrt{5 / 9}
$$

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\mathbf{B}^{(1 / 2)}=\sqrt{\mathbf{B}}
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$$
=\sqrt{5 / 9}=
$$

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Express each of the following using standard radical form.
16. $(5 / 9)^{(1 / 2)}=\quad$ 17. $(5 / 9)^{(-1 / 2)}=\quad 18 .(3 / 8)^{(-1 / 2)}=$ $=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}$

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16. $(5 / 9)^{(1 / 2)}=\quad$ 17. $(5 / 9)^{(-1 / 2)}=\quad 18 .(3 / 8)^{(-1 / 2)}=$

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

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
16. $(5 / 9)^{(1 / 2)}=\frac{\sqrt{5}}{3} \quad$ 17. $(5 / 9)^{(-1 / 2)}=$
18. $(3 / 8)^{(-1 / 2)}=$

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

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Express each of the following using standard radical form.
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$$
=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}=
$$

$(\mathrm{A} / \mathrm{B})^{-\mathrm{k}}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
16. $(5 / 9)^{(1 / 2)}=\frac{\sqrt{5}}{3} \quad$ 17. $(5 / 9)^{(-1 / 2)}=\quad$ 18. $(3 / 8)^{(-1 / 2)}=$

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

$$
(A / B)^{-k}=(B / A)^{k}
$$

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Express each of the following using standard radical form.
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$$
(A / B)^{-\mathrm{k}}=(B / A)^{\mathrm{k}}
$$

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$$
(A / B)^{-\mathrm{k}}=(B / A)^{\mathrm{k}}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
16. $(5 / 9)^{(1 / 2)}=\frac{\sqrt{5}}{3} \quad$ 17. $(5 / 9)^{(-1 / 2)}=\quad$ 18. $(3 / 8)^{(-1 / 2)}=$ $=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}=\quad=(9 / 5)^{(1 / 2)}=$

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$$
\mathbf{B}^{(1 / 2)}=
$$

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$$
\mathbf{B}^{(1 / 2)}=\sqrt{\mathbf{B}}
$$

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$$
=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}=\quad=(9 / 5)^{(1 / 2)}=\sqrt{9 / 5}
$$

$$
\mathbf{B}^{(1 / 2)}=\sqrt{\mathbf{B}}
$$

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$$
\begin{aligned}
=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}=\quad & =(9 / 5)^{(1 / 2)}=\sqrt{9 / 5}= \\
& =
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

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$$
\begin{aligned}
=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}= & =(9 / 5)^{(1 / 2)}=\sqrt{9 / 5}= \\
& =\frac{\sqrt{9}}{\sqrt{5}}
\end{aligned}
$$

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$$
\begin{aligned}
=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}=\quad & =(9 / 5)^{(1 / 2)}=\sqrt{9 / 5}= \\
& =\frac{\sqrt{9}}{\sqrt{5}} \cdot \sqrt{5}
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

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$$
\begin{aligned}
=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}=\quad & =(9 / 5)^{(1 / 2)}=\sqrt{9 / 5}= \\
& =\frac{\sqrt{9} \cdot \sqrt{5}}{\sqrt{5}} \cdot \sqrt{5}=
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
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$$
\begin{aligned}
=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}=\quad & =(9 / 5)^{(1 / 2)}=\sqrt{9 / 5}= \\
& =\frac{\sqrt{9} \cdot \sqrt{5}}{\sqrt{5}} \cdot \sqrt{5}=\frac{3 \sqrt{5}}{\sqrt{25}}
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
16. $(5 / 9)^{(1 / 2)}=\frac{\sqrt{5}}{3} \quad$ 17. $(5 / 9)^{(-1 / 2)}=\quad$ 18. $(3 / 8)^{(-1 / 2)}=$

$$
\begin{aligned}
=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}=\quad & =(9 / 5)^{(1 / 2)}=\sqrt{9 / 5}= \\
& =\frac{\sqrt{9} \cdot \sqrt{5}}{\sqrt{5}} \cdot \sqrt{5}=\frac{3 \sqrt{5}}{\sqrt{25}}=
\end{aligned}
$$

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$$
\begin{aligned}
=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}=\quad & =(9 / 5)^{(1 / 2)}=\sqrt{9 / 5}= \\
& =\frac{\sqrt{9} \cdot \sqrt{5}}{\sqrt{5}} \cdot \sqrt{5}=\frac{3 \sqrt{5}}{\sqrt{25}}=
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
16. $(5 / 9)^{(1 / 2)}=\frac{\sqrt{5}}{3} \quad$ 17. $(5 / 9)^{(-1 / 2)}=\frac{3 \sqrt{5}}{5} \quad$ 18. $(3 / 8)^{(-1 / 2)}=$

$$
\begin{aligned}
=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}=\quad & =(9 / 5)^{(1 / 2)}=\sqrt{9 / 5}= \\
& =\frac{\sqrt{9} \cdot \sqrt{5}}{\sqrt{5}} \cdot \sqrt{5}=\frac{3 \sqrt{5}}{\sqrt{25}}=
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
16. $(5 / 9)^{(1 / 2)}=\frac{\sqrt{5}}{3} \quad$ 17. $(5 / 9)^{(-1 / 2)}=\frac{3 \sqrt{5}}{5} \quad$ 18. $(3 / 8)^{(-1 / 2)}=$

$$
\begin{aligned}
=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}=\quad & =(9 / 5)^{(1 / 2)}=\sqrt{9 / 5}= \\
& =\frac{\sqrt{9}}{\sqrt{5}} \cdot \sqrt{5} \cdot \sqrt{5}=\frac{3 \sqrt{5}}{\sqrt{25}}=
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
16. $(5 / 9)^{(1 / 2)}=\frac{\sqrt{5}}{3} \quad$ 17. $\quad(5 / 9)^{(-1 / 2)}=\frac{3 \sqrt{5}}{5} \quad$ 18. $(3 / 8)^{(-1 / 2)}=$

$$
\begin{aligned}
=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}=\quad & =(9 / 5)^{(1 / 2)}=\sqrt{9 / 5}= \\
& =\frac{\sqrt{9} \cdot \sqrt{5}}{\sqrt{5}} \cdot \sqrt{5}=\frac{3 \sqrt{5}}{\sqrt{25}}=
\end{aligned}
$$

$(\mathrm{A} / \mathrm{B})^{-\mathrm{k}}=$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
16. $(5 / 9)^{(1 / 2)}=\frac{\sqrt{5}}{3} \quad$ 17. $(5 / 9)^{(-1 / 2)}=\frac{3 \sqrt{5}}{5} \quad$ 18. $(3 / 8)^{(-1 / 2)}=$

$$
\begin{aligned}
=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}=\quad & =(9 / 5)^{(1 / 2)}=\sqrt{9 / 5}= \\
& =\frac{\sqrt{9}}{\sqrt{5}} \cdot \sqrt{5} \cdot \sqrt{5}=\frac{3 \sqrt{5}}{\sqrt{25}}=
\end{aligned}
$$

$$
(A / B)^{-k}=(B / A)^{k}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
16. $(5 / 9)^{(1 / 2)}=\frac{\sqrt{5}}{3} \quad$ 17. $(5 / 9)^{(-1 / 2)}=\frac{3 \sqrt{5}}{5} \quad$ 18. $(3 / 8)^{(-1 / 2)}=$

$$
\begin{aligned}
=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}= & =(9 / 5)^{(1 / 2)}=\sqrt{9 / 5}= \\
& =\frac{\sqrt{9}}{\sqrt{5}} \cdot \sqrt{5} \cdot \sqrt{5}=\frac{3 \sqrt{5}}{\sqrt{25}}=
\end{aligned}
$$

$(\mathbf{A} / \mathbf{B})^{-\mathrm{k}}=(\mathbf{B} / \mathbf{A})^{\mathrm{k}}$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
16. $(5 / 9)^{(1 / 2)}=\frac{\sqrt{5}}{3} \quad$ 17. $(5 / 9)^{(-1 / 2)}=\frac{3 \sqrt{5}}{5} \quad$ 18. $(3 / 8)^{(-1 / 2)}=$

$$
\begin{aligned}
=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}=\quad & =(9 / 5)^{(1 / 2)}=\sqrt{9 / 5}=\quad=(8 / 3)^{(1 / 2)} \\
& =\frac{\sqrt{9}}{\sqrt{5}} \cdot \sqrt{5}=\frac{3 \sqrt{5}}{\sqrt{25}}=
\end{aligned}
$$

$$
(A / B)^{-k}=(B / A)^{k}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
16. $(5 / 9)^{(1 / 2)}=\frac{\sqrt{5}}{3} \quad$ 17. $(5 / 9)^{(-1 / 2)}=\frac{3 \sqrt{5}}{5} \quad$ 18. $(3 / 8)^{(-1 / 2)}=$

$$
\begin{aligned}
=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}= & =(9 / 5)^{(1 / 2)}=\sqrt{9 / 5}=\quad=(8 / 3)^{(1 / 2)}= \\
& =\frac{\sqrt{9} \cdot \sqrt{5}}{\sqrt{5}} \cdot \sqrt{5}=\frac{3 \sqrt{5}}{\sqrt{25}}=
\end{aligned}
$$

## Algebra II Class Worksheet \#2 Unit 10

Express each of the following using standard radical form.
16. $(5 / 9)^{(1 / 2)}=\frac{\sqrt{5}}{3} \quad$ 17. $(5 / 9)^{(-1 / 2)}=\frac{3 \sqrt{5}}{5} \quad$ 18. $(3 / 8)^{(-1 / 2)}=$

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\begin{aligned}
=\sqrt{5 / 9}=\frac{\sqrt{5}}{\sqrt{9}}= & =(9 / 5)^{(1 / 2)}=\sqrt{9 / 5}=\quad=(8 / 3)^{(1 / 2)}= \\
& =\frac{\sqrt{9} \cdot \sqrt{5}}{\sqrt{5}} \cdot \sqrt{5}=\frac{3 \sqrt{5}}{\sqrt{25}}=
\end{aligned}
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