

Section 6.2

<p>1. Rewrite the expression in rational exponent form.</p> <p>a. $(\sqrt[3]{x})^2$ b. $\sqrt{7}$</p>	<p>2. Rewrite the expression in radical form.</p> <p>a. $4^{2/5}$ b. $y^{1/3}$</p>
<p>3. Evaluate the expression.</p> <p>a. $\sqrt[4]{256}$ b. $\sqrt[3]{-64}$</p>	<p>4. Evaluate the expression.</p> <p>a. $32^{3/5}$ b. $(-36)^{3/2}$</p>

Section 6.5

Solve each equation by finding common bases.

<p>5. $4^{5x+2} = 4^{22}$</p>	<p>6. $7^{x-5} = 49^x$</p>	<p>7. $\left(\frac{1}{5}\right)^x = 125$</p>
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Section 8.4

<p>8. Identify the vertex, the axis of symmetry, and the maximum or minimum of the quadratic function. Describe the transformations compared to the parent function $f(x) = x^2$.</p>	
<p style="text-align: center;">$f(x) = 2(x - 3)^2 + 4$</p>	
<p>vertex:</p>	<p>AOS:</p>
<p>Min or Max?</p>	<p>Value of min or max:</p>
<p>Domain (Interval Notation):</p>	<p>Range (Interval Notation):</p>
<p>Transformations:</p>	