Algebra 2

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1. Simplify:

) $\sqrt[4]{162x^2y^4z^6}$

A) $\sqrt[4]{120y^3z^2}$ B) $2xz\sqrt[4]{2x^3y^2}$ C) $3y\sqrt[4]{3x^3y^2z}$ D) $3yz\sqrt[4]{2x^2z^2}$

2. Simplify:

$\sqrt{20n^3} \cdot -3\sqrt{20n^3}$

A) $-60n^3$ B) 20 C) 400 D) $2\sqrt{10}$

3. Simplify:

)) $\dfrac{3\sqrt{5}}{\sqrt{80}}$

A) $\dfrac{6}{5}$ B) $\dfrac{3}{4}$ C) $\dfrac{5\sqrt{3}}{4}$ D) 2

4. Simplify:

) $\dfrac{5-\sqrt{2}}{\sqrt{3}-\sqrt{2}}$

A) $\dfrac{5\sqrt{3}+\sqrt{6}-5\sqrt{2}-2}{23}$ B) $\dfrac{20\sqrt{5}+40+5\sqrt{3}+2\sqrt{15}}{5}$

C) $\dfrac{-2-\sqrt{5}}{4}$ D) $5\sqrt{3}+5\sqrt{2}-\sqrt{6}-2$

5. Given the following problem, solve for real and extraneous answers, and categorize.

$$\sqrt{x+5}-2=-x-5$$

Real X Values:	Extraneous X Values:

6. Given the following problem, solve for real and extraneous answers, and categorize.

$$\sqrt{x-3}+4=2x-3$$

Real X Values:	Extraneous X Values:

7. Given the following problem, solve for real and extraneous answers, and categorize.

$$-\frac{1}{2}\sqrt{x+7}+5=x-6$$

Real X Values:	Extraneous X Values:

8. Drag the radical function to the right graph.

$y = \sqrt{x+4}$	$y = 2\sqrt[3]{x+2} - 4$	$y = 3\sqrt{x-2}$