

Simplify the following rational expression; show all work.

$$1.] \left(\frac{x^2+27}{9-x^2} \right) \div \left(\frac{x^2+6x+9}{x^2+5x+6} \right)$$

$$\frac{x^2+27}{-1(x^2-9)} \cdot \left(\frac{x^2+5x+6}{x^2+6x+9} \right)$$

$$\frac{(\cancel{x+3})(x^2-3x+9)}{-1(\cancel{x+3})(x-3)} \cdot \frac{(\cancel{x+3})(x+2)}{(\cancel{x+3})(x+3)}$$

$$-\frac{(x+2)(x^2-3x+9)}{(x-3)(x+3)}$$

$$3.] \frac{\frac{x+5}{x+1}}{(x+5)} - \frac{\frac{2}{x+5}}{(x+1)}$$

$$\frac{x^2+5x}{(x+1)(x+5)} - \frac{2x+2}{(x+5)(x+1)}$$

$$\frac{x^2+5x-2x-2}{(x+5)(x+1)} = \frac{x^2+3x-2}{(x+5)(x+1)}$$

$$2.] \frac{x-3}{x-4} + \frac{4x}{x^2-16}$$

$$\frac{(x+4)(x-3)}{(x-4)(x+4)} + \frac{4x}{(x+4)(x-4)}$$

$$\frac{x^2+4x-3x-12+4x}{(x-4)(x+4)}$$

$$\frac{x^2+5x-12}{(x-4)(x+4)}$$

$$4.] \left(\frac{x^2}{x-9} \right) \cdot \left(\frac{x^2-81}{12} \right)$$

$$\frac{\cancel{x} \cdot x}{(\cancel{x-1})} \cdot \frac{(x+9)(\cancel{x-1})}{3}$$

$$\frac{x(x+9)}{3}$$

Solve the following rational equations by showing work. Be sure to check for extraneous solutions and the possibility of no solutions.

$$5.) \frac{x+2}{x-2} = \frac{2}{x-2}$$

$$2x = 7(x+5)$$

$$2x = 7x + 35$$

$$-5x = 35$$

$$\boxed{x = -7}$$

$$6.) \frac{2x+3}{10x} = \frac{2}{x} \quad \leftarrow \text{domain restriction } x \neq 0$$

$$10x = 2x^2 + 3x$$

$$0 = 2x^2 - 7x$$

$$x(2x-7)$$

1

↪

$$2x-7=0$$

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Responsive Education Solutions Staff

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