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Algebra 2 Solve Each Equation Worksheet

Example: $\frac{x}{5} = \frac{x+3}{8}$ Cross Multiply

$$8x = 5(x+3)$$

$$8x = 5x + 15$$

$$3x = 15$$

$$x = 5$$

Check: $\frac{5}{5} = \frac{5+3}{8}$
 $1 = 1$ ✓

Solving Rational Equalities/Equations

Important: Check your answers! Sometimes, math techniques produce *extraneous* solutions

Example: $\frac{1}{x+1} = \frac{3}{x^2-1}$ Cross Multiply

$$1(x^2-1) = 3(x+1)$$

$$x^2-1 = 3x+3$$

$$x^2-3x-4 = 0$$

$$(x-4)(x+1) = 0$$

$$x = 4, -1$$

Check solutions: 4:
(substitute in the original equation)

$$\frac{1}{4+1} = \frac{3}{4^2-1}$$
$$\frac{1}{5} = \frac{3}{15}$$
 ✓

$x = -1$ is an extraneous solution...

$$\frac{1}{-1+1} = \frac{3}{(-1)^2-1}$$
$$\frac{1}{0} = \frac{3}{0}$$
 ✗

Pick the approach that you prefer...

Example: $\frac{3x+2}{12} - \frac{1}{6} = \frac{1}{3}$

method 1: combine terms and cross multiply

$$\frac{3x+2}{12} - \frac{2}{12} = \frac{1}{3}$$

$$\frac{3x+2-2}{12} = \frac{1}{3}$$

$$\frac{3x}{12} = \frac{1}{3}$$

$$3(3x) = 12(1)$$

$$9x = 12$$

$$x = \frac{4}{3}$$

method 2: get rid of denominators and solve

Least common multiple of 12, 6, and 3 is 12

--> multiply entire equation by 12

$$12 \left(\frac{3x+2}{12} - \frac{1}{6} = \frac{1}{3} \right)$$

$$3x + 2 - 2 = 4$$

$$3x = 4$$

$$x = \frac{4}{3}$$

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Multiply a monomial and polynomial. B. Solving Equations. Objectives: The student will be able to: • Solve multi-step equations.

algebra 1 solve each equation by factoring worksheet

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