

Name \_\_\_\_\_

## Rational Expression Worksheet #13: Solving Equations

Solve each equation for  $x$ . SHOW WORK!

$$1.) \frac{15}{x-6} + \frac{7x}{x-6} = \frac{-6}{x-6}$$

$$2.) \frac{11x}{4x+9} - \frac{14}{4x+9} = \frac{41}{4x+9}$$

$$3.) \frac{3x}{7x} + \frac{1}{7} = \frac{4}{x}$$

$$4.) \frac{2x}{3x} - \frac{5}{6} = \frac{5}{2x}$$

$$5.) \frac{1}{7(x-3)} + \frac{4}{7} = \frac{3}{(x-3)}$$

$$6.) \frac{2}{5} - \frac{7}{(x+6)} = \frac{9}{5(x+6)}$$

Name \_\_\_\_\_

## Rational Expression Worksheet #14: Solving Equations

Solve each equation for  $x$ . SHOW WORK!

$$1.) \frac{-4x}{x-8} - \frac{11}{x-8} = \frac{25}{x-8}$$

$$2.) \frac{3}{4} - \frac{2x}{4x-24} = \frac{8}{x-6}$$

$$3.) \frac{3}{6x} - \frac{9}{12} = \frac{11}{4x}$$

$$4.) \frac{18}{5x+10} + \frac{4}{5} = \frac{-6}{x+2}$$

$$5.) \frac{12}{x^2+5x+6} + \frac{7}{x+3} = \frac{2}{x+2}$$

$$6.) \frac{1}{10} + \frac{4x}{5x} = \frac{-9}{2x}$$

$$7.) \frac{14}{2x-5} + \frac{7x}{2x-5} = \frac{63}{2x-5}$$

$$8.) \frac{2}{x-6} + \frac{7}{x+2} = \frac{4x+2}{x^2-4x-12}$$