

Name _____

Rational Expression Worksheet #14: Solving Equations

Solve each equation for x . SHOW WORK!

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

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

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

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

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

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

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

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