

Solving Rational Equations

Name: _____

$$1) \frac{4}{x} + \frac{1}{3x} = 9$$

$$2) \frac{56}{x^2 - 2x - 15} - \frac{6}{x + 3} = \frac{7}{x - 5}$$

$$3) \frac{1}{x - 5} + \frac{1}{x - 5} = \frac{4}{x^2 - 25}$$

$$4) \frac{5}{x - 5} - 1 = \frac{x}{x - 5}$$

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

$$6) \frac{5}{x^2-3x+2} - \frac{1}{x-2} = \frac{x+6}{3x-3}$$