

## Rational Equations Worksheet

Solve the following equations:

1.  $\frac{x}{3} + \frac{2}{5} = \frac{2}{3}$

2.  $\frac{5}{x} - \frac{1}{2} = \frac{1}{x}$

3.  $\frac{x}{x+3} + \frac{9}{x+3} = \frac{2x}{x+3}$

4.  $\frac{5}{x-4} = \frac{4}{x-5}$

$$5. \frac{1}{6x} + 1 = \frac{3}{10x}$$

$$6. \frac{x-5}{14x^2} + \frac{1}{21x} = 0$$

$$7. \frac{2}{x-2} + \frac{x}{2} = \frac{7}{2x-4}$$

$$8. \frac{1}{x^2+4x+3} - \frac{1}{x^2-9} = \frac{2}{x^2-2x-3}$$