

Solving Rational Equations

**** Remember to check for undefined values!**

Example #1:

Solve the equation.

$$\frac{16x^2 - 9}{4x + 3} = -6$$

Example #2:

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

Example #3:

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

Do now:

$$\frac{1}{a-7} = 3$$

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

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