

Solving Rational Equations



Solve for x and check for extraneous solutions

$$\frac{4}{x+1} = 2$$

Solve for x and check for extraneous solutions

$$\frac{3}{5x} = \frac{2}{x-7}$$

Solve for x and check for extraneous solutions

$$\frac{1}{2x + 5} = \frac{x}{11x + 8}$$

Solve for x and check for extraneous solutions

$$\frac{7}{2} + \frac{3}{x} = 3$$

Solve for x and check for extraneous solutions

$$\frac{5x}{x-2} = 7 + \frac{10}{x-2}$$

A company produces computer desks. The average cost to produce x desks per month can be modeled by the function below. How many desks would the company need to produce each month in order for the average cost to be \$85 per desk?

$$C(x) = \frac{4000 + 50x}{x}$$