

# Solving Rational Equations

## Keynote/ Powerpoint Presentation

A **rational equation** is an equation that contains one or more rational expressions.

### Example 7

$$\frac{1-x}{x-1} = \frac{x+6}{x-1} + \frac{x}{x-1} \quad \text{Multiply by LCD}$$

$$\begin{aligned} (1-x) &= (x+6) + x(x-1) && \text{Simplify} \\ 1-x &= x+6+x^2-x && \text{Distribute} \\ 1-x &= x^2+6 && \text{Like terms} \\ 0 &= x^2+5x-5 && \text{Set = to 0} \\ 0 &= (x-1)(x+6) && \text{Factor} \\ &&& \text{Solve} \end{aligned}$$

$$\begin{aligned} x-1 &= 0 && x+6=0 \\ \text{or} &&& \boxed{x=-6} \\ \text{Check Answer} &&& \\ \frac{1}{0} &= \frac{x}{0} + \frac{x}{0} \end{aligned}$$

### Example 5

$$\frac{2x-5}{x-8} + \frac{x-6}{x-8} = \frac{11}{x-8} \quad \text{Multiply by LCD}$$

$$\begin{aligned} 2(2x-5) + x(x-8) &= 11(1) && \text{Simplify} \\ 4x-10+x^2-8x &= 11 && \text{Distribute} \\ x^2-4x-10 &= 11 && \text{Combine like terms} \\ x^2-4x-21 &= 0 && \text{Set = to zero} \\ (x-7)(x+3) &= 0 && \text{Factor} \\ &&& \text{Set = to zero} \end{aligned}$$

### Example 6

$$\frac{16}{x-4} - \frac{2}{x-4} = \frac{1}{x+4} \quad \text{Factor the denominator}$$

$$\begin{aligned} \frac{16-2}{x-4} &= \frac{1}{x+4} && \text{Multiply by LCD} \\ \frac{14}{x-4} &= \frac{1}{x+4} && \text{Distribute} \\ 14(x+4) &= x-4 && \text{Solve for x} \\ 14x+56 &= x-4 && \\ 13x &= -60 && \\ x &= -\frac{60}{13} && \end{aligned}$$

$$\begin{aligned} \text{Check Answer} &&& \\ \frac{16}{14-16} &= \frac{2}{4-4} \\ \frac{16}{-2} &= \frac{2}{0} \end{aligned}$$

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**Zhe Xu**



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