

# SOLVING RATIONAL EQUATIONS

## Algebra 2 Guided Notes

### SOLVING RATIONAL EQUATION

Extraneous Solutions

When you check your solution(s) and you get \_\_\_\_\_

Solving Rational Equations with Extraneous Solutions

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

Check:

C



Math with Mrs. Rivera

### SOLVING RATIONAL EQUATION

Solving Rational Equations by Cross Multiplication

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

$$\begin{aligned} 1(x+2) &= x(x+1) \\ x+2 &= x^2+x \\ -x &= x^2 \\ \boxed{5=x} \end{aligned}$$

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

$$\begin{aligned} -1(x+2) &= -x(x+1) \\ -x-2 &= -x^2-x \\ -x^2-x &= -x^2-x \\ -2x &= -2x \\ -2x+2 &= -2x+2 \\ 2x+3 &= 0 \\ -3 &= -3 \\ 2x &= -3 \\ \boxed{x = -\frac{3}{2}} \end{aligned}$$

Solving Rational Equations Using the Least Common Denominator

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

$$\begin{aligned} \frac{2x}{x+1} - \frac{1}{1} &= \frac{3x}{x+2} \\ \frac{2x-1}{x+1} &= \frac{3x}{x+2} \\ \frac{2x-1}{x+1} \cdot \frac{x+2}{x+1} &= \frac{3x}{x+2} \cdot \frac{x+1}{x+1} \\ \frac{(2x-1)(x+2)}{(x+1)^2} &= \frac{3x(x+1)}{(x+1)^2} \\ (2x-1)(x+2) &= 3x(x+1) \\ 18x-24 &= 30x \\ -12x &= -24 \end{aligned}$$

$$\begin{aligned} \pm \frac{(x-2)(x-3)}{(x+1)(x+2)} + \frac{1}{x} &= 0 \\ \frac{3x-2x-2y+30+1}{x} &= 0 \\ y+10 &= 0 \\ \boxed{y = -10} \end{aligned}$$

Answer key included

# Solving Rational Equations Algebra 2 Unit Lesson

**Yijin Wang**



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web allow the gaseous phase thermodynamics to be curve fitted to 300k about 142k lower than the normal boiling point 542k 2 of kerosene nevertheless in actual calculations involving liquid kerosene fuel the heat capacity and latent heat of vaporization of liquid kerosene 12 are used for

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