

guided notes

NAME _____

DATE _____

Module 16 Solving Rational Equations

Lesson 1 Solving Rational Equations

Lesson Objectives

- Solve rational equations by multiplying the equation by the least common multiple of the denominators.
- Identify when a number is a restricted value of the variable, and recognize that it is not a solution.

A rational equation contains at least one _____.

To solve a rational equation, first find the _____.

1 Solve and check: $\frac{2}{3x} = 6$

The solution is _____.

2 Solve: $\frac{x}{8} - \frac{1}{6} = \frac{1}{12}$

The solution is _____.

3 Solve and check: $\frac{1}{3} + \frac{2}{x} = \frac{4}{3x}$

The solution is _____.

If a number makes an expression in an equation undefined, that number is

a _____ and _____ be a solution.

Solving Rational Equations:

- Determine the LCD.
- Multiply each term in the equation by the LCD.
- Solve.
- Check the answer(s).

