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NAME _____ DATE _____

Module 15 Simplifying Rational Expressions
Lesson 1 Finding Restricted Values of Rational Expressions

guided notes

Lesson Objective

- Find the restrictions that must be placed on the variable in a rational expression.

A rational expression is a fraction whose numerator and denominator are _____.

The domain of a rational expression is the set of all real numbers except those values that make the denominator _____.

A _____ of a rational expression is a real number that makes the denominator of that expression zero.

1. Find the restricted values of the rational expression: $\frac{9}{x}$.

_____

2. Find the domain of the rational expression: $\frac{9}{x}$.

_____

3. Find the restricted values of the rational expression: $\frac{4}{x + 9}$.

_____

4. Find the restricted values of the rational expression: $\frac{3n}{2n - 6}$.

_____

5. Find the restricted values of the rational expression: $\frac{x + 1}{x^2 + x - 6}$.

_____

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