## NAME

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

## **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

## polynomials

The domain of a rational expression is the set of all real numbers except

those values that make the denominator **<u>Zero</u>** 

A restricted value \_\_\_\_\_ of a rational expression is a real

number that makes the denominator of that expression zero.

	Find the restricted values of the rational expression: $\frac{9}{x}$ .
	0
2	Find the domain of the rational expression: $\frac{9}{x}$ .
	<u>x</u> ≠ 0
3	Find the restricted values of the rational expression: $\frac{4}{x+9}$ .
	-9
4	Find the restricted values of the rational expression: $\frac{3n}{2n-6}$ .
	3
5	Find the restricted values of the rational expression: $\frac{x+1}{x^2+x-6}$ .
	2, -3

Module 15 Lesson 1

Guided Notes

monotype composition

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