Name:	
Date:	

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Instructor:
Class Time:

Unit 7 Module A Notes Sections 20.1 - 20.3

View the PowerPoint, Videos, or Textbook for Module 7A.

Vocabulary Fill in the blanks.

- 1. (Section 20.1) Expressions that have the same value for all possible replacements for the variables are called _______ _____.
- 2. (Section 20.1) Rational numbers are quotients of ______, and rational expressions are quotients of _____.
- 3. (Section 20.1) Expressions of the form a b and b a are _____ of each other.
- 4. (Section 20.2) Two expressions are ______ of each other if their product is 1.

Problems Show ALL steps.

1. (Section 20.1) Find all numbers for which this rational expression is undefined:

$$\frac{5x+1}{5x^2 - 24x - 5}$$

2. (Section 20.1) Multiply, but do not simplify: $\frac{y-5}{5-y} \cdot \frac{-1}{-1}$

3. (Section 20.1) Simplify: $\frac{5a^2+10a-40}{5a^2+30a+40}$

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4. (Section 20.1) Multiply and simplify: $\frac{t^2+10t-11}{t^2-1} \cdot \frac{t+1}{t+11}$

5. (Section 20.2) Divide and simplify:
$$\frac{x^2+3x}{x^2+2x-3} \div \frac{x}{x+1}$$

- 6. (Section 20.2) Find the Least Common Multiple (LCM)
 - a. 6,9,21

b.
$$9-4y^2$$
, $3+2y$, $3-2y$