***Pre-Calculus 11***

***Unit 7: Rational Expressions and Equations***

***Worksheet 7.3-7.4—Equivalent Rational Expressions***

1. Simplify. Identify any nonpermissible values of the variables.

1. b) c)

d) e) f)

2. Simplify.

1. b) c)

d) e) f)

3. Simplify. Identify any nonpermissible values of the variables.

1. b) c)

d) e) f)

4. Simplify.

1. b) c)

d) e) f)

5. Simplify,

1. b)

c) d)

6. Two points on a coordinate grid are represented by and .

1. What is a simplified rational expression for the slope of the line passing through A and B?
2. What can you say about the slope of AB when ? What does this tell you about the line through A and B?
3. Determine whether the slope of AB is positive or negative when and p is an integer.

7. Simplify

***Solutions***

1. a) b) c)

d) e) f)

2. a) b) c)

d) e) f)

3. a) b)

c) d)

e) f)

4. a) b) c)

d) e) f)

5. a) b) c) d)

6. a)

b) ; the slope is undefined when .

c) The slope is negative.

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