NAME_____

Section 7.1 Rational Expressions

1. What is the definition of a RATIONAL algebraic expression:

2. When is a rational expression undefined?

PROBLEMS: 10, 12, 21, 25-47 ODD

Section 7.2 Multiplication and Division

1. How do you multiply two rational expressions?

2. How do you divide two rational expressions?

 PROBLEMS: 11-27 ODD; 35,37; 39-53 ODD; 67

Section 7.3 Addition, Subtraction

1. What condition is necessary when adding or subtracting rational expressions.

2. What is meant by the phrase "The LCD is the LCM of the denominators"?

PROBLEMS: 7-17 ODD; 41-51 ODD; 61, 63,65

Section 7.4 Addition, Subtraction with Unlike Denominators
1. List the steps needed to add rational expressions when the denominators are different.

PROBLEMS: 5,6,11,13, 25-49 ODD

NAME_____

Section 7.6 Solving Rational Equations
1. What are the first two steps required when solving rational equations?

2. What does multiplying by the LCM do to a rational equation?

PROBLEMS: 5-45 ODD

Section 7.7 Proportions (start on page 411. Skip the pages 407-410)
1. What is the definition of a proportion.?

2. What is the definition of similar triangles?

PROBLEMS: 7, 8, 10, 17, 37, 38, 39, 41, 43, 46, 48, 54

CHAPTER 8. FUNCTIONS AND GRAPHS
Section 8.1
1. On a typical x-y graph, the y axis is the _____and the x axis is the _____
   (Enter DOMAIN or RANGE where appropriate)

2. In a graph of a function, how many times is a vertical line permitted to cross the graph?

PROBLEMS: 1-6 ALL, 21-25 ODD; 41, 43, 45, 53, 55, 57

Section 8.2 Domain and Range

1: In an equation such as $h(x) = x^2 + 3$ which variable corresponds to the DOMAIN.

2: Rewrite the following equation as a piecewise function $f(x) = |x|$

PROBLEMS: 11,13, 15,17, 31, 33,35,37, 47,49, 53-57 ODD

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