

NAME: _____ Score _____/10

Please **print** your name**No Decimals No mixed numbers No complex fractions No boxed or circled answer Show Work**

1. A **binary relation** is a comparison of two operands.
2. A conditional equation is an equation which is **true** when some real numbers are substituted for the variables and is **false** when some real numbers are substituted for the variables.
3. If any expression is added to both sides of an equation the resulting equation is **equivalent** to the original equation.
4. An Equation is a **mathematical** statement which contains an **equal** symbol.
5. Definitions used in mathematics are **stipulative** definitions.
6. The statement: "If a , b , and c are real numbers, then $a(b+c)=ab+ac$." is called The **Distributive** Property.
7. Two equations are **equivalent** if they have the same solution sets.
8. List the elements of the set $\{x \mid x \text{ is a positive integer such that } x < 2 \text{ or } 4 < x < 7\}$
1, 5, 6
9. List the natural numbers in the interval $[-3, 3)$ **1, 2**
10. **Q** is the set of **rational** numbers.

HINT: EQUAL IS THE WRONG ANSWER FOR BOTH #3 AND #7