

College Algebra Quiz 1 Summer 2010

NAME: _____ Score _____/10
Please print your name

Each blank is worth $\frac{1}{2}$ point

1. A _____ is a calculation involving two operands.
2. A _____ is a comparison of two operands.
3. The distance d between two points (x_1, y_1) and (x_2, y_2) is given by the formula: _____.
4. The midpoint of the line segment joining two points (x_1, y_1) and (x_2, y_2) is given by the formula: _____.
5. The point of intersection of the two number lines in the Cartesian coordinate system is called the _____ of the coordinate system.
6. An _____ is a mathematical statement which contains an = symbol.
7. A _____ 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.

Complete each of the following important properties of the Real Numbers.

Distributive Property: If a, b, and c are real numbers, then _____ = _____.

Transitive Property: If a, b, and c are real numbers such that _____ and _____, then _____.

Law of Trichotomy: If a and b are real numbers, then one and only one of the following is true:

1. _____
2. _____
3. _____

Zero Factor Property: If a and b are real numbers and _____, then _____ or _____.