Identify the Properties

Write the correct answer.

1.) The additive inverse of a number, a is −a so that a −a = 0.

2.) When two numbers are multiplied together, the product is the same regardless of the order of the multiplicands. For example a x b = b x a

3.) When three or more numbers are added, the sum is the same regardless of the grouping of the addends. For example (a + b) + c = a + (b + c)

4.) The sum of two numbers times a third number is equal to the sum of each addend times the third number. For example a x (b + c) = a x b + a x c

5.) When three or more numbers are multiplied, the product is the same regardless of the order of the multiplicands. For example (a x b) x c = a x (b x c)

6.) The product of any number and one is that number. For example a x 1 = a.

7.) If you add the same number to both sides of an equation, the equation. is still true. For example if a = b, then a + c = b + c.

8.) If you divide the same number to both sides of an equation, the equation is still true. For example if a = b, then a / c = b / c.

9.) Adding 0 to any number leaves it unchanged. For example a + 0 = a.

10.) Multiplying any number by 0 yields 0. For example a x 0 = 0.