

NAME: \_\_\_\_\_ Score \_\_\_\_\_/10  
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**SHOW ALL YOUR WORK IN A NEAT AND ORGANIZED FASHION**

1. T F A point is on the x-axis if and only if its first coordinate is 0.
2. T F If a vertical line may be drawn so that it intersects a graph in more than one point, then that graph is not the graph of a function.
3. A zero of a function  $f$  is a domain element  $k$  for which \_\_\_\_\_.
4. The \_\_\_\_\_ of a function is the set of all points whose coordinates satisfy the rule of the function.
5. If  $p$  is a function and  $k$  is an element of the domain of  $p$ , then \_\_\_\_\_ is the unique range element associated with  $k$  by the function  $p$ .
6. & 7. The equation of a circle with radius  $r$  and center at the origin is \_\_\_\_\_ while the equation of a circle with radius  $r$  and center at the point  $(h, k)$  is \_\_\_\_\_.
8. A linear equation in two variables is an equation that can be written in the form \_\_\_\_\_ where  $m$  and  $b$  are real numbers.
9. The midpoint of the line segment joining two points  $(x_1, y_1)$  and  $(x_2, y_2)$  is given by the formula: \_\_\_\_\_.
10. A number (or numbers) that makes an equation true when substituted for the variable (or variables) is called a \_\_\_\_\_ of the equation.