

NAME: _____ Score _____/10
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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 **$f(k) = 0$** .
4. The **graph** 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 **$p(k)$** 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 **$x^2 + y^2 = r^2$** while the equation of a circle with radius r and center at the point (h, k) is **$(x - h)^2 + (y - k)^2 = r^2$**
8. A linear equation in two variables is an equation that can be written in the form **$y = mx + b$** 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: **$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$**
10. A number (or numbers) that makes an equation true when substituted for the variable (or variables) is called a **solution** of the equation