NAME: _____Score_____/10

- 1. The rule for a linear function is of the form f(x) = mx + b
- 2. A quadratic function is a function whose rule can be written in the form $f(x) = ax^2 + bx + c$
- 3. The x-intercept of the graph of 2x 8y = 24 is 12.
- 4. The graph of a function passes the **vertical** line test.
- 5. If the discriminant of a quadratic function is negative the graph of that function has **no** x-intercepts.
- 6. f(x) is an element of the range of the function f.
- 7. If a point (k, p) is on the graph of a function g, then p = g(k)
- 8. The vertex of the graph of a quadratic function f is $\left(\frac{-b}{2a}, f\left(\frac{-b}{2a}\right)\right)$
- 9. State the formula for the slope of a line through two points $m = \frac{y_1 y_2}{x_1 x_2}$
- 10. If the leading coefficient of a quadratic function is negative the graph of the function is a parabola which opens **down**