

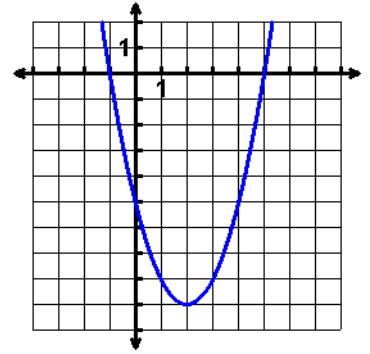
1. $f(x) =$ _____

Domain: _____ Range: _____

Rate of Change $[-1, 0]$ _____ Y Intercept: _____

Increasing: _____ Decreasing: _____

Axis of Symmetry: _____ End Behavior: $x \rightarrow$ _____, $y \rightarrow$ _____
 $x \rightarrow$ _____, $y \rightarrow$ _____



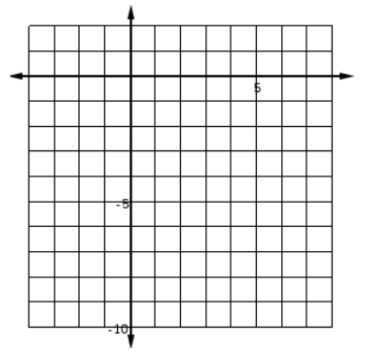
2. $f(x) = -(x - 3)^2$

Domain: _____ Range: _____

X intercept(s): _____ Y Intercept: _____

Increasing: _____ Decreasing: _____

Rate of Change $[0, 2]$ _____ End Behavior: $x \rightarrow$ _____, $y \rightarrow$ _____
 $x \rightarrow$ _____, $y \rightarrow$ _____



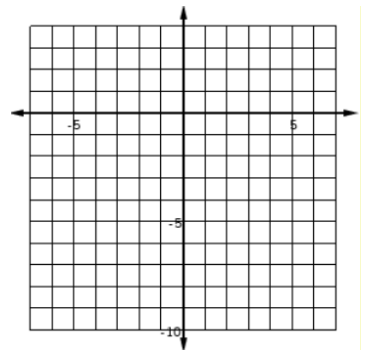
3. $f(x) = x^2 - 9$

Transformations: _____ Vertex: _____

Roots: _____ Y Intercept: _____

Increasing: _____ Decreasing: _____

Axis of Symmetry: _____ End Behavior: $x \rightarrow$ _____, $y \rightarrow$ _____
 $x \rightarrow$ _____, $y \rightarrow$ _____



Use the information to sketch a quadratic.

4. Domain: all real numbers Increasing: $(-2, \infty)$
 Range: $[1, \infty)$ Decreasing: $(-\infty, -2)$
 There is no stretch or shrink ($a = 1$)

