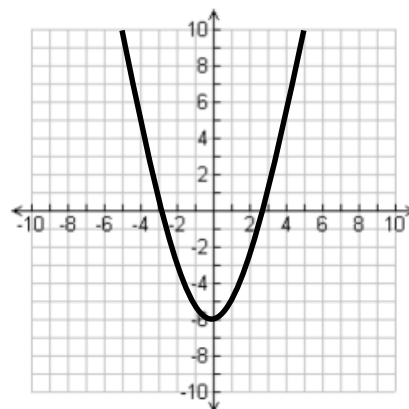


Name: _____ Date: _____

Characteristics of Functions

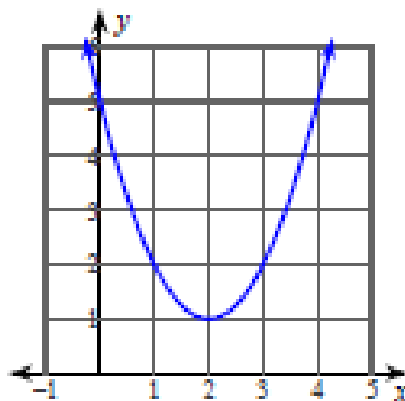
1.

- a. Domain: _____ b. Range: _____
- c. Extrema: _____ d. Axis of Sym: _____
- e. Increasing: _____ f. Decreasing: _____
- g. Y-Intercept: _____ h. Solutions: _____
- i. End Behavior: $x \rightarrow -\infty \quad f(x) \rightarrow$ _____
 $x \rightarrow +\infty \quad f(x) \rightarrow$ _____



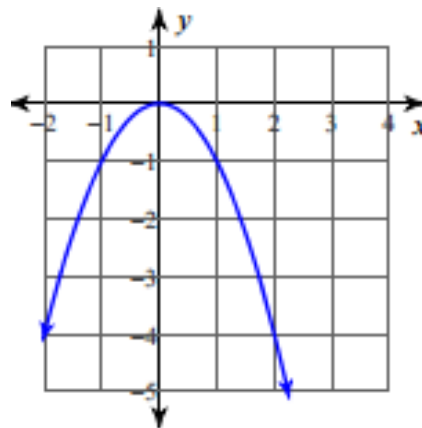
2.

- a. Domain: _____ b. Range: _____
- c. Extrema: _____ d. Axis of Sym: _____
- e. Increasing: _____ g. Decreasing: _____
- g. Y-Intercept: _____ h. Solutions: _____
- i. End Behavior: $x \rightarrow -\infty \quad f(x) \rightarrow$ _____
 $x \rightarrow +\infty \quad f(x) \rightarrow$ _____



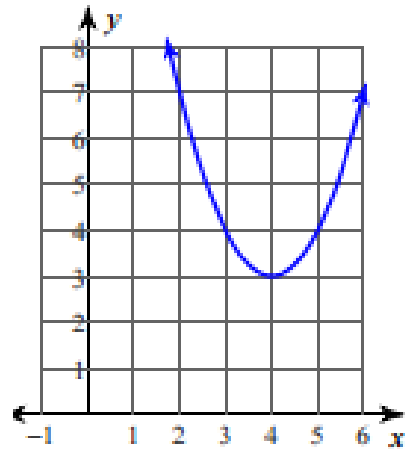
3.

- a. Domain: _____ b. Range: _____
- c. Extrema: _____ d. Axis of Sym: _____
- e. Increasing: _____ h. Decreasing: _____
- g. Y-Intercept: _____ h. Solutions: _____
- i. End Behavior: $x \rightarrow -\infty \quad f(x) \rightarrow$ _____
 $x \rightarrow +\infty \quad f(x) \rightarrow$ _____



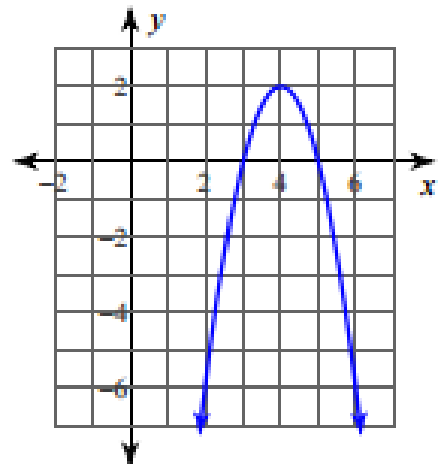
4. $f(x) = x^2 - 8x + 19$

- a. Domain: _____ b. Range: _____
- c. Extrema: _____ d. Axis of Sym: _____
- e. Increasing: _____ i. Decreasing: _____
- g. Y-Intercept: _____ h. Solutions: _____
- i. End Behavior: $x \rightarrow -\infty \quad f(x) \rightarrow$ _____
 $x \rightarrow +\infty \quad f(x) \rightarrow$ _____



5. $f(x) = -2x^2 + 16x - 30$

- a. Domain: _____ b. Range: _____
- c. Extrema: _____ d. Axis of Sym: _____
- e. Increasing: _____ f. Decreasing: _____
- g. Y-Intercept: _____ h. Solutions: _____
- i. End Behavior: $x \rightarrow -\infty \quad f(x) \rightarrow$ _____
 $x \rightarrow +\infty \quad f(x) \rightarrow$ _____



6. $f(x) = -x^2 - 12x - 32$

- a. Domain: _____ b. Range: _____
- c. Extrema: _____ d. Axis of Sym: _____
- e. Increasing: _____ f. Decreasing: _____
- g. Y-Intercept: _____ h. Solutions: _____
- i. End Behavior: $x \rightarrow -\infty \quad f(x) \rightarrow$ _____
 $x \rightarrow +\infty \quad f(x) \rightarrow$ _____

