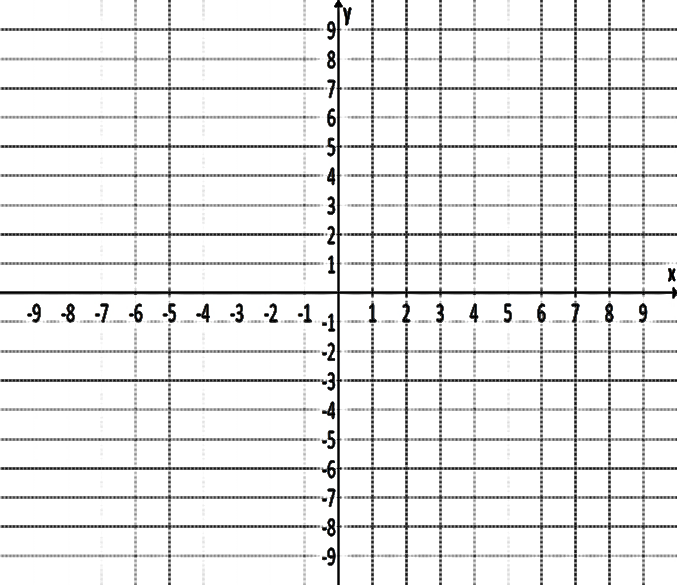
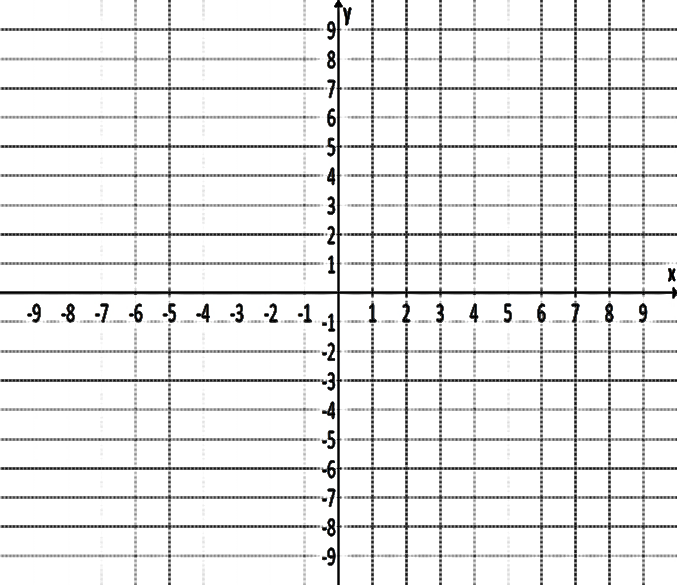
Unit 6.1 Review – Transformations, Graphing, and Characteristics

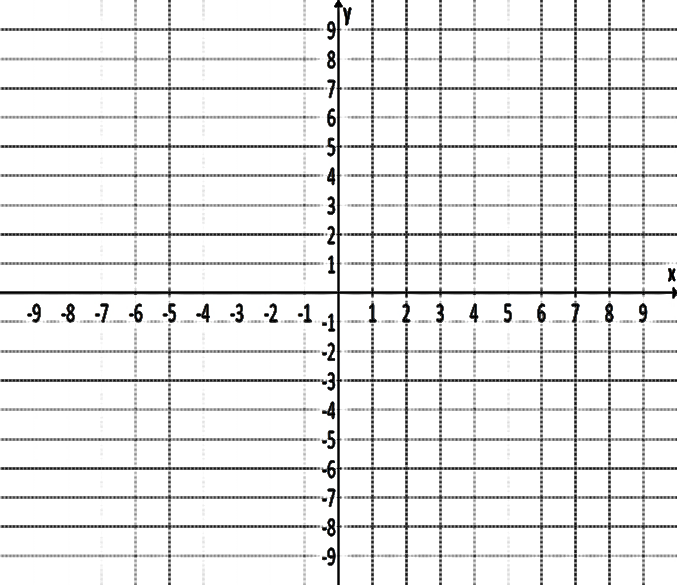
Determine the Transformations and Vertex:

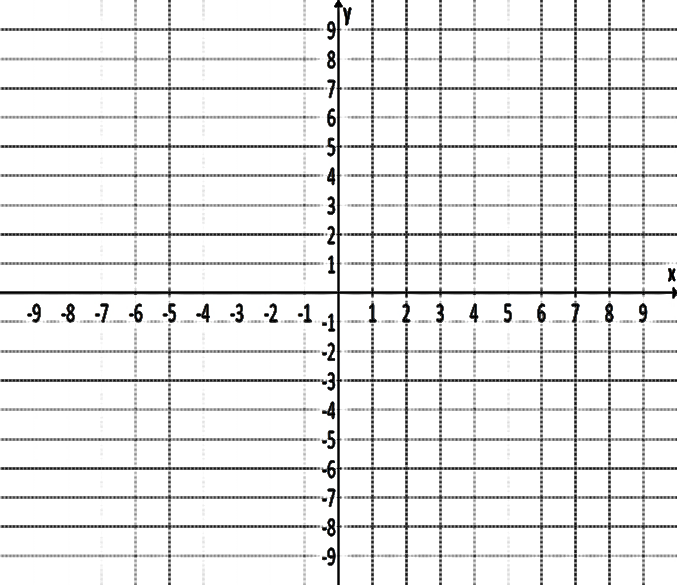
1.  2.  3. 

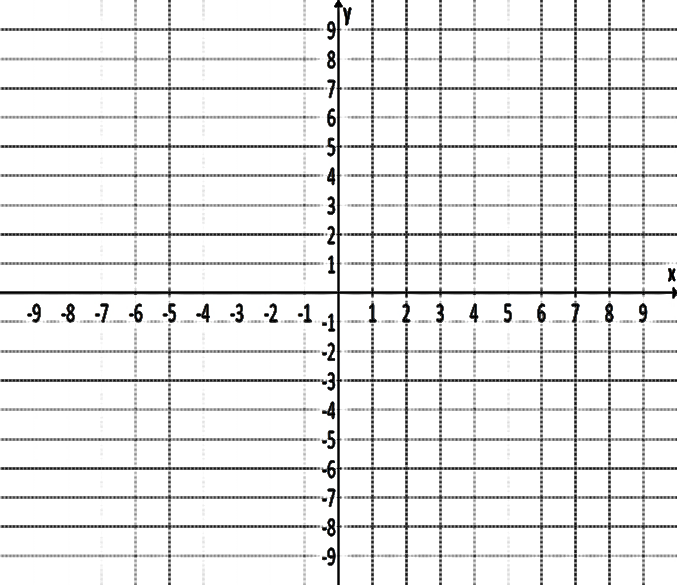
Graph the following in vertex form:

1. ****
2. ****

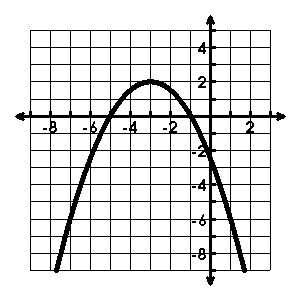
Graph the following in standard form:

1. ****

****

1. 
2. ****

Characteristics of Graphs:



Vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Axis of Symmetry:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Max/Min Value: \_\_\_\_\_\_\_\_\_\_\_\_

Y-Intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Zeroes: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Interval of Increase:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Interval of Decrease:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

End Behavior: as x 🡪 -∞, f(x) 🡪 \_\_\_\_\_\_; as x 🡪 ∞, f(x) 🡪 \_\_\_\_\_\_\_

Rate of change on the interval -1 < x< 0:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Axis of Symmetry:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Interval of Increase:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Interval of Decrease:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Extrema: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Max/Min Value: \_\_\_\_\_\_\_\_\_\_\_\_**

**Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Y-Intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Zeroes: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Rate of change on the interval -3 < x< 0:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Axis of Symmetry:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Interval of Increase:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Interval of Decrease:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

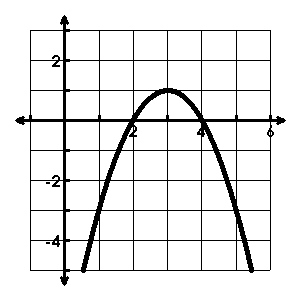
**Extrema: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Max/Min Value: \_\_\_\_\_\_\_\_\_\_\_\_**

**Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Y-Intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Zeroes: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Rate of change on the interval -3 < x< 0:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Between what x-values is the graph negative? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



Vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Axis of Symmetry:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Max/Min Value: \_\_\_\_\_\_\_\_\_\_\_\_

Y-Intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Zeroes: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Interval of Increase:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Interval of Decrease:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

End Behavior: as x 🡪 -∞, f(x) 🡪 \_\_\_\_\_\_; as x 🡪 ∞, f(x) 🡪 \_\_\_\_\_\_\_

Rate of change on the interval 1 < x< 3:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Between what x-values is the graph positive? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_