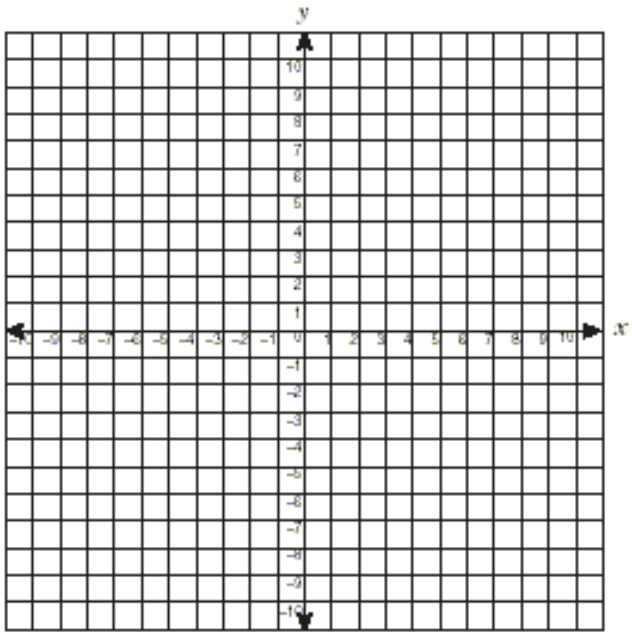
Name: _____ Date: _____

3.1/3.3 Worksheet – Graphing Quadratic Functions in Vertex Form

For each of the following quadratic functions, graph the parabola and state the vertex, axis of symmetry equation, max/min, domain, and range.

1) $y = (x-5)^2 + 1$



1. Vertex:

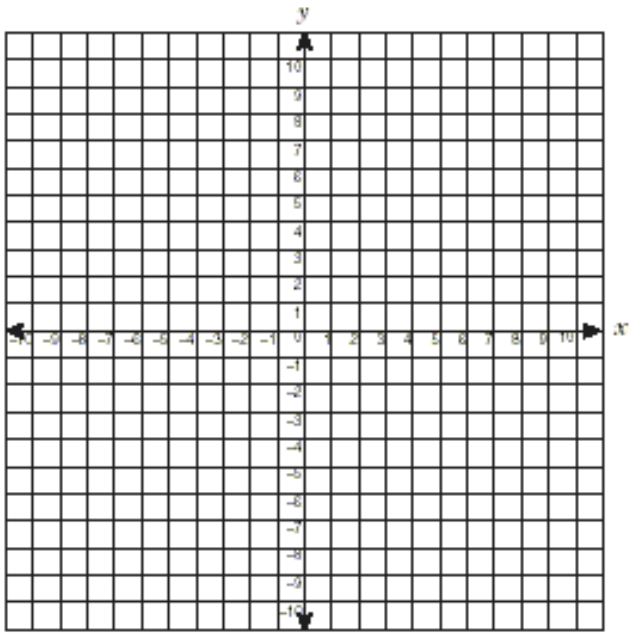
   A of S eqn:

   Max/Min:

   Domain:

   Range:

2) $y = (x+4)^2 - 7$



2. Vertex:

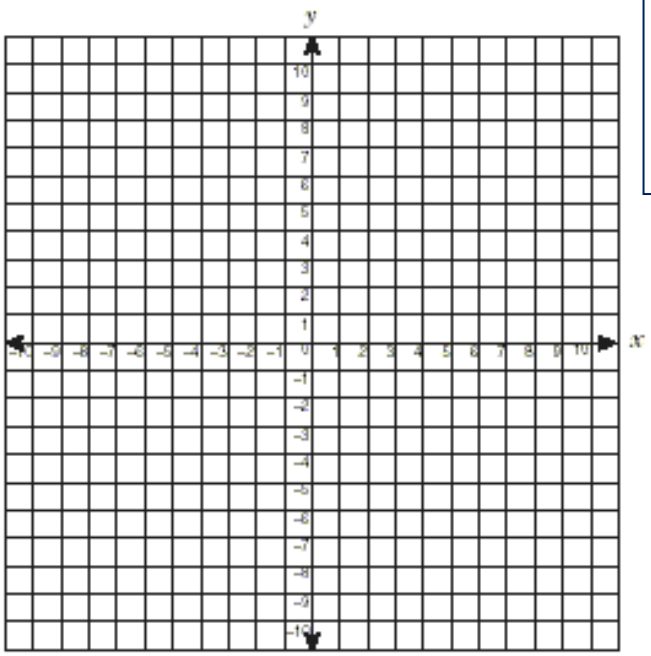
   A of S eqn:

   Max/Min:

   Domain:

   Range:

3) $y = -3 + (x-1)^2$



3. Vertex:

   A of S eqn:

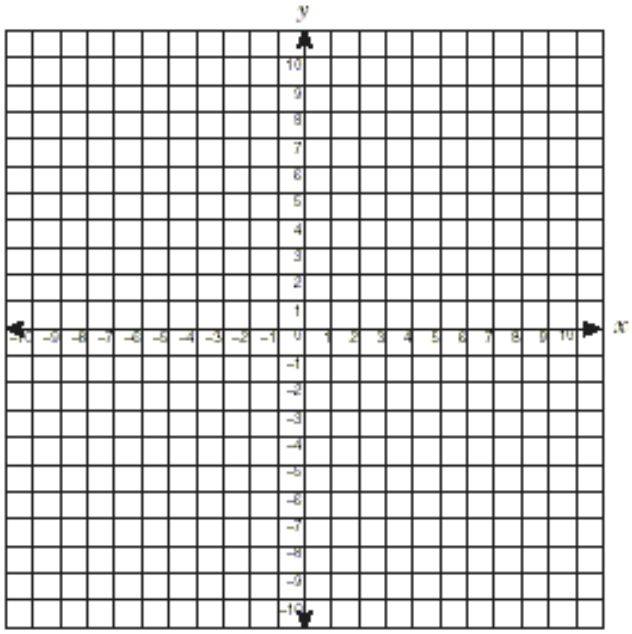
   Max/Min:

   Domain:

   Range:

For each of the following quadratic functions, graph the parabola and state the vertex, axis of symmetry equation, max/min, domain, and range.

4) $y = (x + 2)^2 - 6$



4. Vertex:

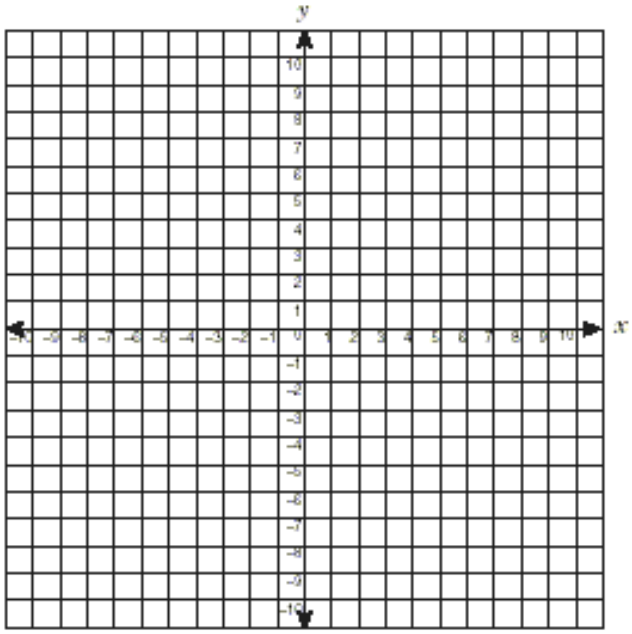
A of S eqn:

Max/Min:

Domain:

Range:

5) $y = (x - 3)^2 - 9$



5. Vertex:

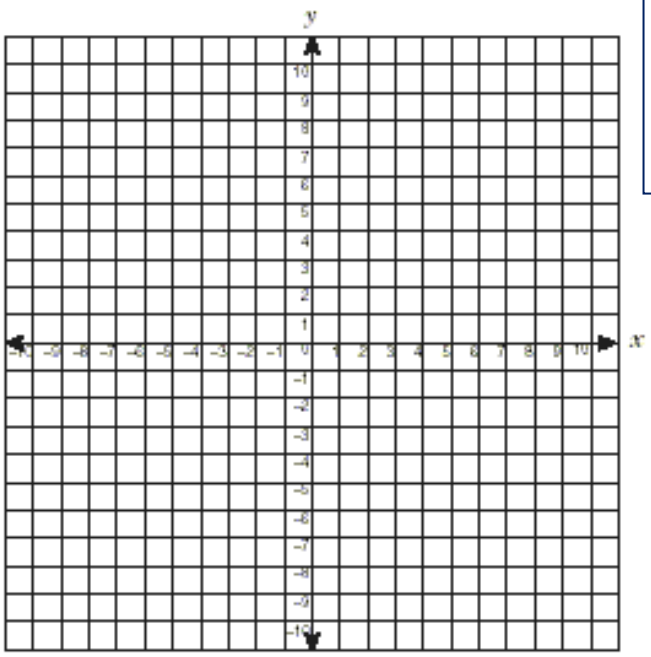
A of S eqn:

Max/Min:

Domain:

Range:

6) $y = 2 + (x + 5)^2$



6. Vertex:

A of S eqn:

Max/Min:

Domain:

Range: