

Graphing Quadratic Functions in Vertex Form Practice

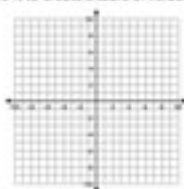
Name: _____ Period: _____

Directions: Identify the vertex of each function. Then use it to create a table of values. Graph. Then identify the characteristics. **Show work.**

4. $f(x) = -(x + 4)^2 + 9$

Vertex: _____

x	f(x)

**Characteristics:**

Direction: up / down max / min

AoS: _____ Vertex: _____

x-intercept(s): _____

y-intercept: _____

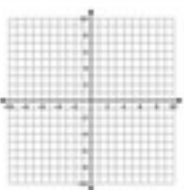
Domain: _____ Range: _____

Axis of symmetry: _____

5. $f(x) = 2(x + 1)^2 - 8$

Vertex: _____

x	f(x)

**Characteristics:**

Direction: up / down max / min

AoS: _____ Vertex: _____

x-intercept(s): _____

y-intercept: _____

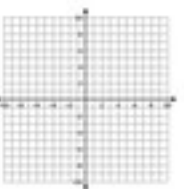
Domain: _____ Range: _____

Axis of symmetry: _____

6. $f(x) = \frac{1}{2}(x - 3)^2$

Vertex: _____

x	f(x)

**Characteristics:**

Direction: up / down max / min

AoS: _____ Vertex: _____

x-intercept(s): _____

y-intercept: _____

Domain: _____ Range: _____

Axis of symmetry: _____