

Graphing Quadratic Functions in Vertex Form Practice

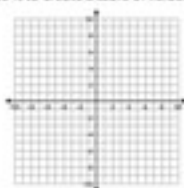
Name: _____ Period: _____

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

7. $f(x) = -2(x - 1)^2 - 1$

Vertex: _____

x	f(x)



Characteristics:

Direction: up / down max / min

AoS: _____ Vertex: _____

x-intercept(s): _____

y-intercept: _____

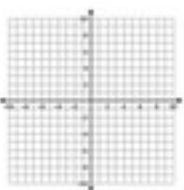
Domain: _____ Range: _____

Axis of symmetry: _____

8. $f(x) = (x + 1)^2 - 4$

Vertex: _____

x	f(x)



Characteristics:

Direction: up / down max / min

AoS: _____ Vertex: _____

x-intercept(s): _____

y-intercept: _____

Domain: _____ Range: _____

Axis of symmetry: _____

9. Identify the vertex of each function. Then determine the direction and whether the vertex is a maximum or minimum.

$f(x) = 3(x - 7)^2 + 5$

Vertex: _____

up / down

max / min

$f(x) = -(x + 4)^2 - 11$

Vertex: _____

up / down

max / min

$f(x) = \frac{1}{4}(x - 8)^2 - 3$

Vertex: _____

up / down

max / min