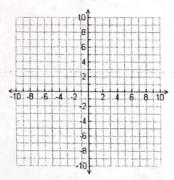
Review: Day 1: Vertex Form/Characteristics

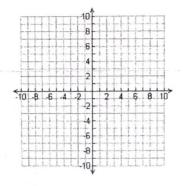
Name:	

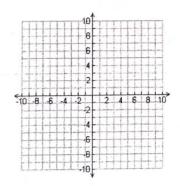
1.
$$f(x) = 2(x-1)^2 + 3$$

2.
$$f(x) = -(x+3)^2 + 1$$

3.
$$f(x) = 2(x+2)^2$$







X	У
	-

X	У

х	У

Onens:	up or down
Орень.	up or down

. –	h -	L	_
-	 11 -		

Vertex:

Opens: up or down

Opens: up or down

Max or Min: _____

a = h =

Vertex:

Vertex:

Axis of symmetry: _____

Max or Min: _____

Max or Min:

X-Intercept: _____

Axis of symmetry: _____

Axis of symmetry:

Y – Intercept: _____

Roots: _____Y – Intercept:

Y – Intercept:

Zeros:

Rate of Change from x = -1 to x = 0

Slope from x = -5 to x = -3

Rate of Change from x = -1 to x = 0

Domain: _____

Range:

Domain: _____

Domain:

Range: _____

Range: _____

End behavior : As $x \rightarrow -\infty$, $y \rightarrow$

End behavior : As $x \rightarrow -\infty$, $y \rightarrow$

End behavior : As $x \rightarrow -\infty$, $y \rightarrow$

$$x \to \infty, y \to$$

$$x \to \infty, y \to$$

$$x \rightarrow \infty, y \rightarrow$$

Interval of Increase: _____

Interval of Increase: _____

x 7 \infty, y 7

interval of increase:

interval of increase.

Interval of Increase: _____
Interval of Decrease:

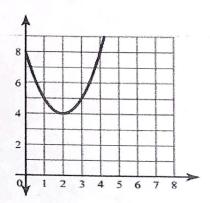
Interval of Decrease: _____

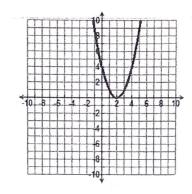
Interval of Decrease: _____

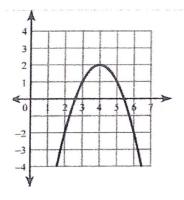
Write the equation of the graph in vertex form:

AOS: ____; Vertex: _____ AOS: ____; Vertex: _____

AOS: ____; Vertex: _____







Convert the following from vertex form to standard form:

7.
$$f(x) = 2(x-1)^2 + 3$$

8.
$$f(x) = -(x+3)^2 + 1$$