

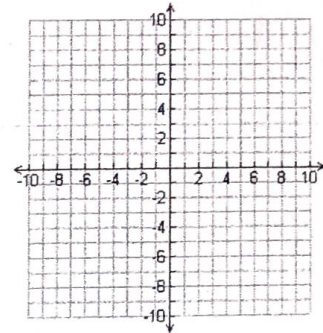
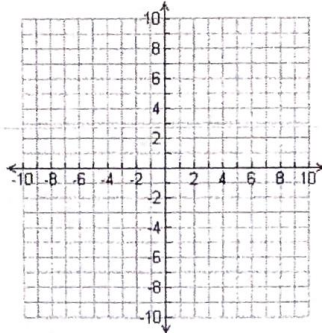
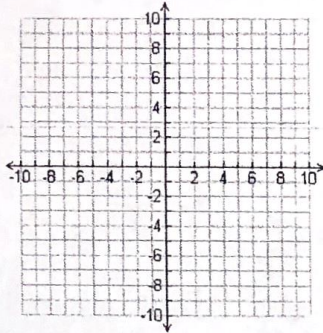
Review: Day 1: Vertex Form/Characteristics

Name: _____

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

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

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



x	y

x	y

x	y

a = ___ h = ___ k = ___

Opens: up or down

Vertex: _____

Max or Min: _____

Axis of symmetry: _____

X-Intercept: _____

Y-Intercept: _____

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

Domain: _____

Range: _____

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

$x \rightarrow \infty, y \rightarrow$

Interval of Increase: _____

Interval of Decrease: _____

a = ___ h = ___ k = ___

Opens: up or down

Vertex: _____

Max or Min: _____

Axis of symmetry: _____

Roots: _____

Y-Intercept: _____

Slope from $x = -5$ to $x = -3$

Domain: _____

Range: _____

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

$x \rightarrow \infty, y \rightarrow$

Interval of Increase: _____

Interval of Decrease: _____

a = ___ h = ___ k = ___

Opens: up or down

Vertex: _____

Max or Min: _____

Axis of symmetry: _____

Zeros: _____

Y-Intercept: _____

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

Domain: _____

Range: _____

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

$x \rightarrow \infty, y \rightarrow$

Interval of Increase: _____

Interval of Decrease: _____

Write the equation of the graph in vertex form:

4. _____

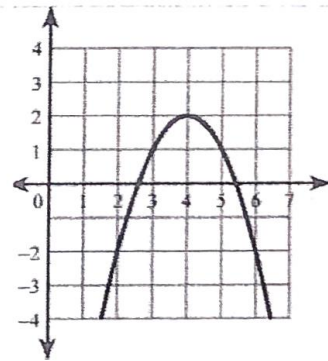
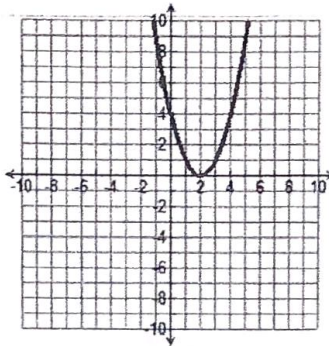
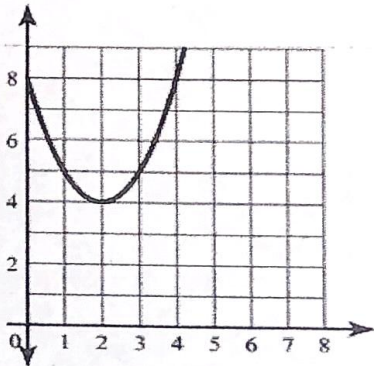
5. _____

6. _____

AOS: ____; Vertex: _____

AOS: ____; Vertex: _____

AOS: ____; Vertex: _____



Convert the following from vertex form to standard form:

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

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