

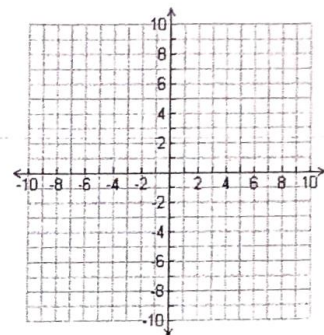
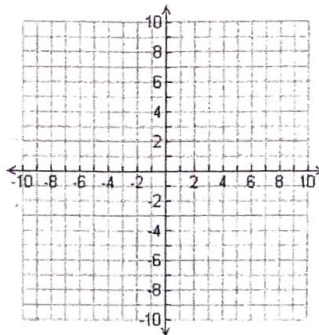
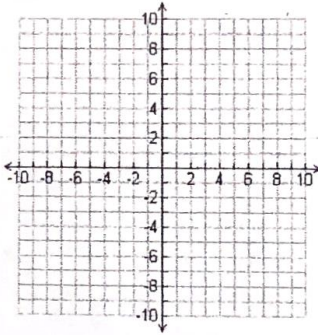
Unit 4 Quiz Review: Vertex Form/Characteristics

Name: _____

1. $f(x) = (x + 2)^2 - 16$

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

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



x	y

x	y

x	y

$a = \underline{\quad}$ $h = \underline{\quad}$ $k = \underline{\quad}$

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: _____

$a = \underline{\quad}$ $h = \underline{\quad}$ $k = \underline{\quad}$

Opens: up or down

Vertex: _____

Max or Min: _____

Axis of symmetry: _____

Roots: _____

Y-Intercept: _____

Slope from $x = 1$ to $x = 3$

Domain: _____

Range: _____

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

$x \rightarrow \infty, y \rightarrow$

Interval of Increase: _____

Interval of Decrease: _____

$a = \underline{\quad}$ $h = \underline{\quad}$ $k = \underline{\quad}$

Opens: up or down

Vertex: _____

Max or Min: _____

Axis of symmetry: _____

Zeros: _____

Y-Intercept: _____

Rate of Change from $x = -4$ to $x = -2$

Domain: _____

Range: _____

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

$x \rightarrow \infty, y \rightarrow$

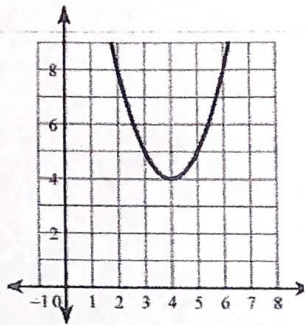
Interval of Increase: _____

Interval of Decrease: _____

Write the equation of the graph in vertex form:

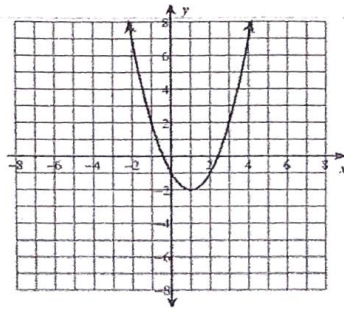
4. _____

AOS: ____; Vertex: _____



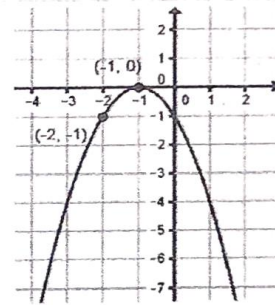
5. _____

AOS: ____; Vertex: _____



6. _____

AOS: ____; Vertex: _____



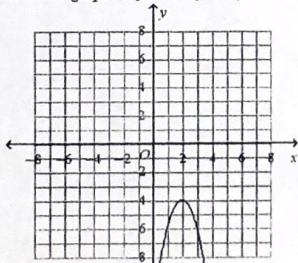
Convert the following from vertex form to standard form:

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

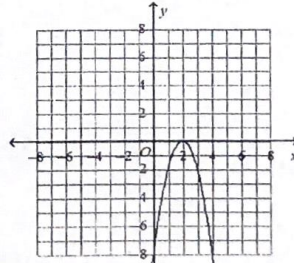
8. $y = 4(x + 3)^2 - 8$

9. Which is the graph of $y = -2(x - 2)^2 - 4$?

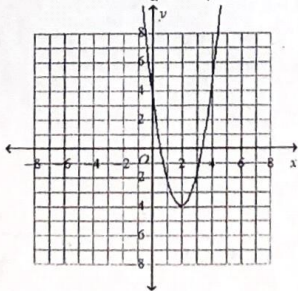
a.



c.



b.



d.

