

Vertex Form HW-1

Date _____ Period _____

1) What is the Vertex form Equation?

Identify the Vertex and Axis of Symmetry.

2) $y = (x + 2)^2 - 3$

3) $y = 2(x - 2)^2 + 3$

4) $y = 2(x + 1)^2 + 4$

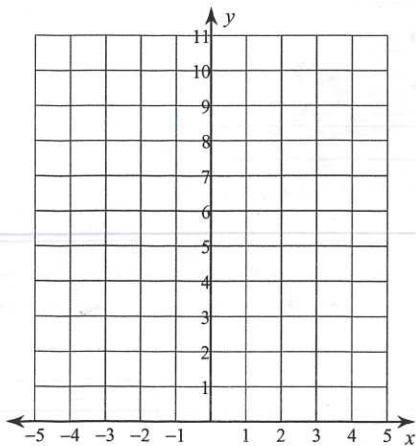
5) $y = -(x - 3)^2 + 1$

6) $y = (x - 1)^2 + 1$

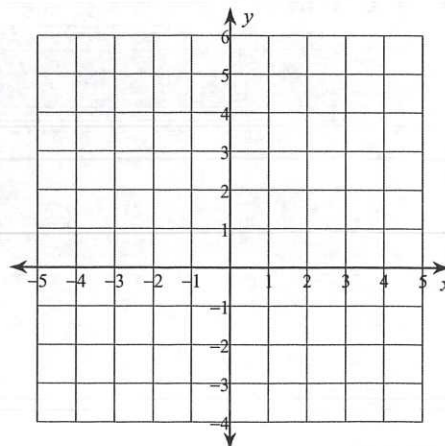
7) $y = -2(x - 4)^2 + 1$

Graph the Function. Label the vertex and axis of symmetry. SHOW THE TABLE OF VALUES!!

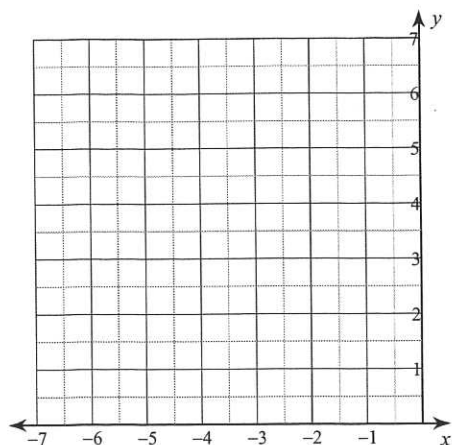
8) $y = 2(x + 1)^2 + 2$



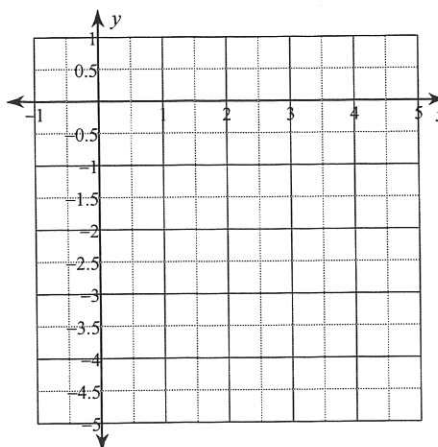
9) $y = 2(x + 2)^2 - 3$



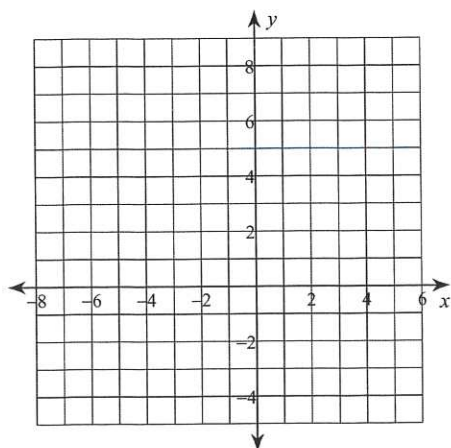
10) $y = (x + 4)^2 + 2$



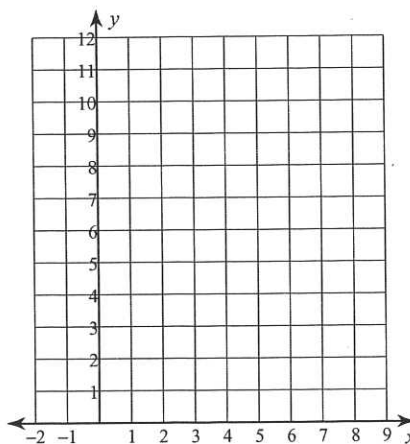
11) $y = (x - 3)^2 - 4$



12) $y = 3(x - 1)^2 - 4$

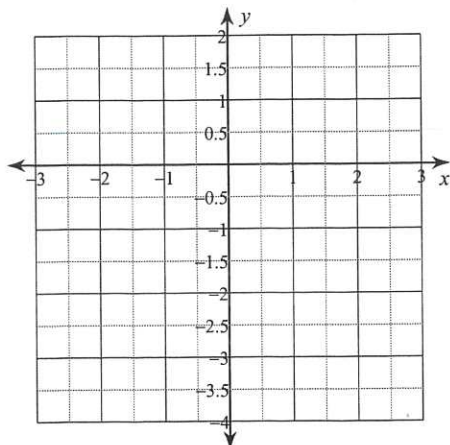


13) $y = 2(x - 4)^2 + 3$



1. Write the function in vertex form.
2. Graph
3. Label the vertex and AOS

14) $y = -x^2 + 2x$



15) $y = x^2 + 4x + 5$

