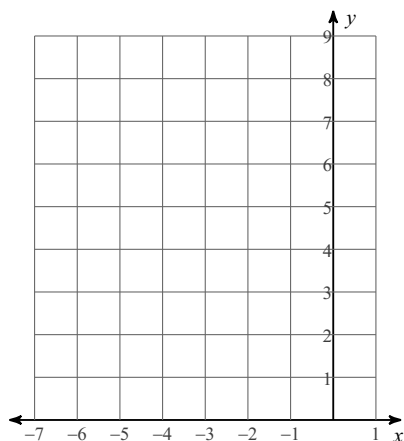


8.7 Day 2

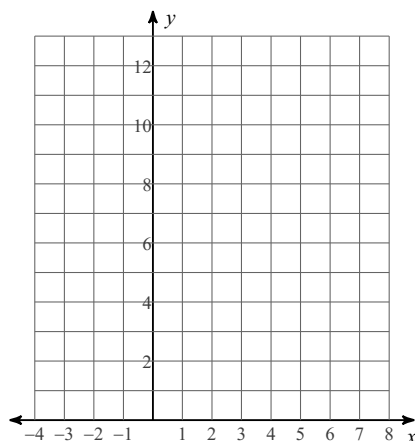
Date _____ Period _____

Directions**1) State the transformation that must have been done on the quadratic parent function in order to get the graph shown****2) Graph the function****3) State the vertex**

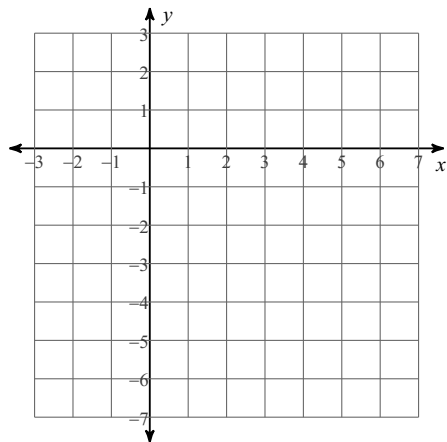
1) $y = (x + 1)^2 + 4$



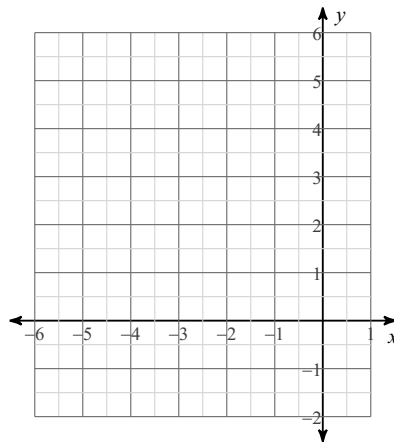
2) $y = 2(x - 2)^2 + 4$



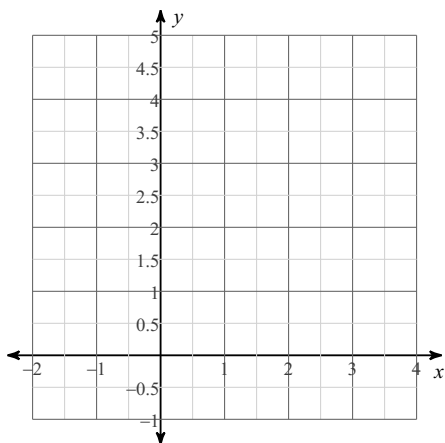
3) $y = -2(x + 1)^2 + 2$



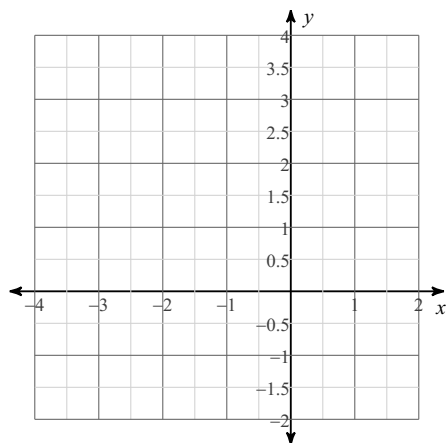
4) $y = -(x + 4)^2 + 4$



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

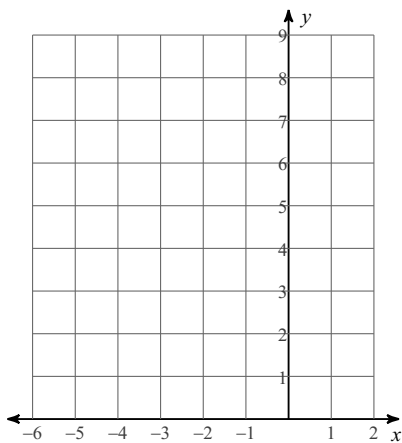


6) $y = (x + 1)^2 - 1$

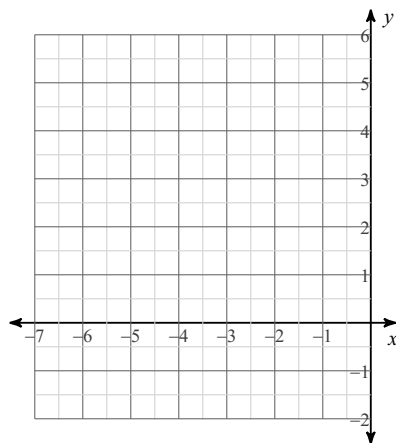


Write each in vertex form. State the transformation of each graph from the parent function $y = x^2$. Sketch the graph of each function.

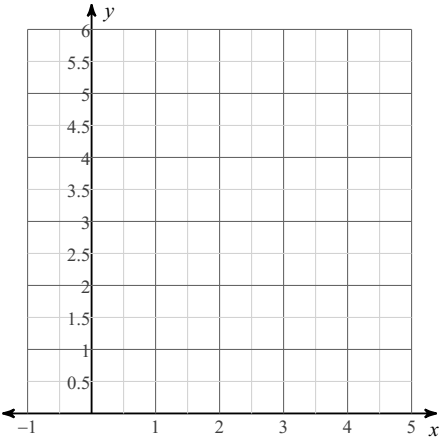
7) $y = x^2 + 4x + 8$



8) $y = -x^2 - 8x - 12$



9) $y = x^2 - 4x + 5$

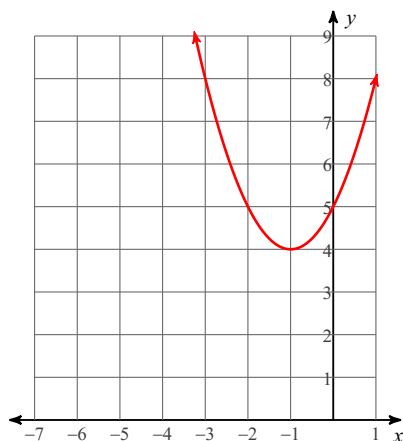


8.7 Day 2

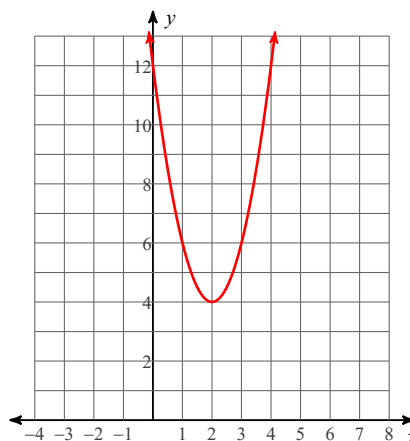
Date _____ Period _____

Directions**1) State the transformation that must have been done on the quadratic parent function in order to get the graph shown****2) Graph the function****3) State the vertex**

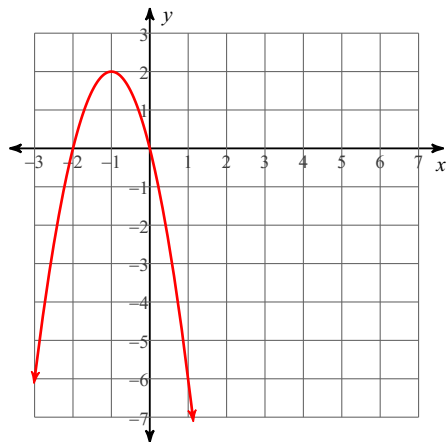
1) $y = (x + 1)^2 + 4$



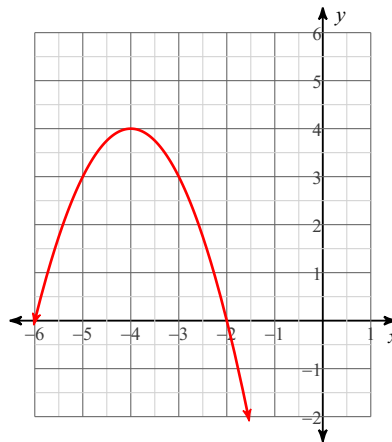
2) $y = 2(x - 2)^2 + 4$



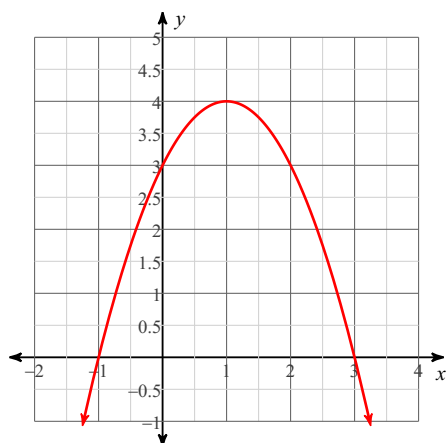
3) $y = -2(x + 1)^2 + 2$



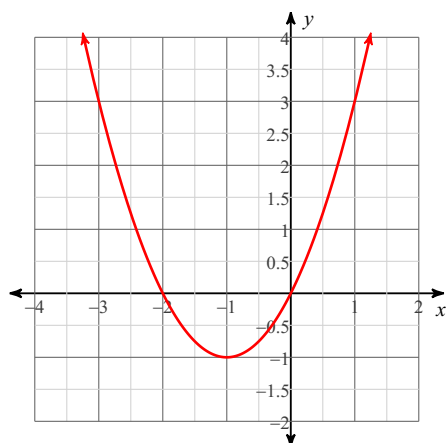
4) $y = -(x + 4)^2 + 4$



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

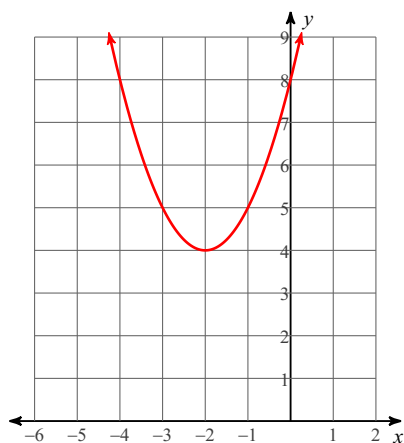


6) $y = (x + 1)^2 - 1$

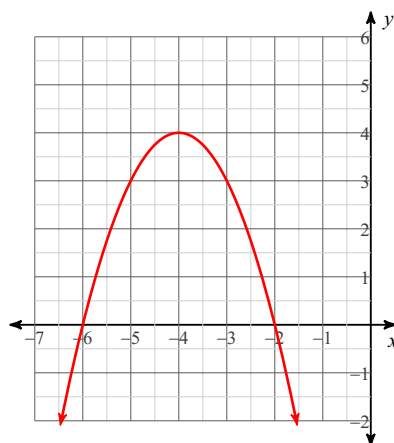


Write each in vertex form. State the transformation of each graph from the parent function $y = x^2$. Sketch the graph of each function.

7) $y = x^2 + 4x + 8$



8) $y = -x^2 - 8x - 12$



9) $y = x^2 - 4x + 5$

