

Day 6 – Graphing in Intercept Form

Name: _____

Practice Assignment

Date: _____ Block: _____

Review - Factor the following quadratic equations:

a. $y = x^2 + x - 30$

b. $y = x^2 - 100$

Find the x-intercepts and vertex of the following:

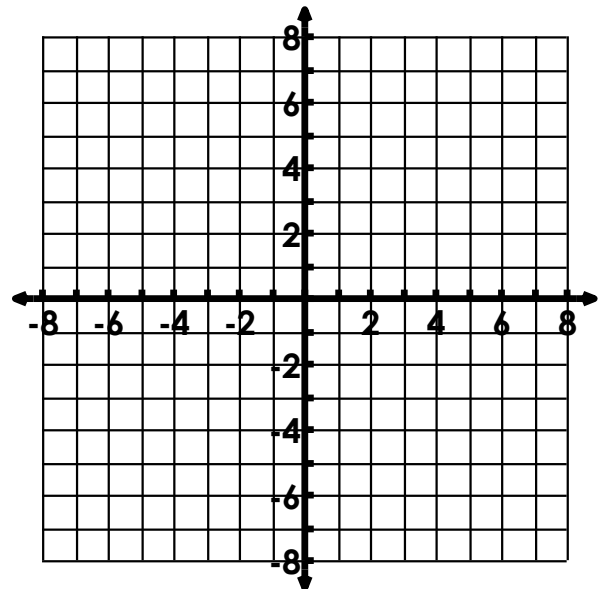
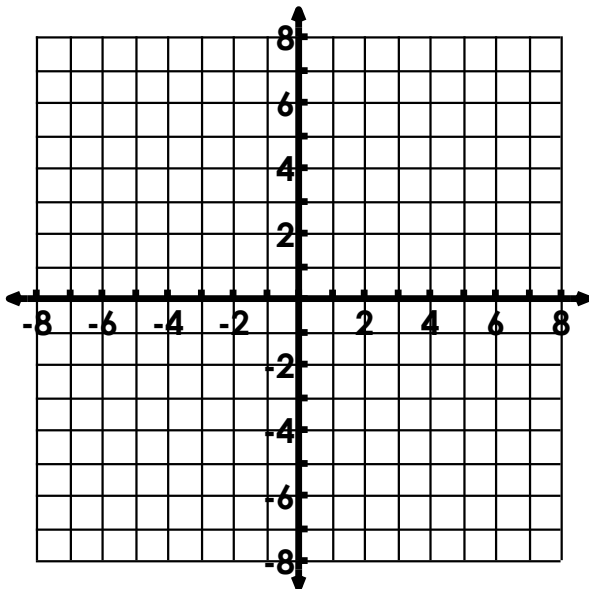
c. $y = (x + 7)(x - 3)$

d. $y = -(x + 12)(x + 2)$

Graph the following quadratic functions. Show how you calculated the vertex.

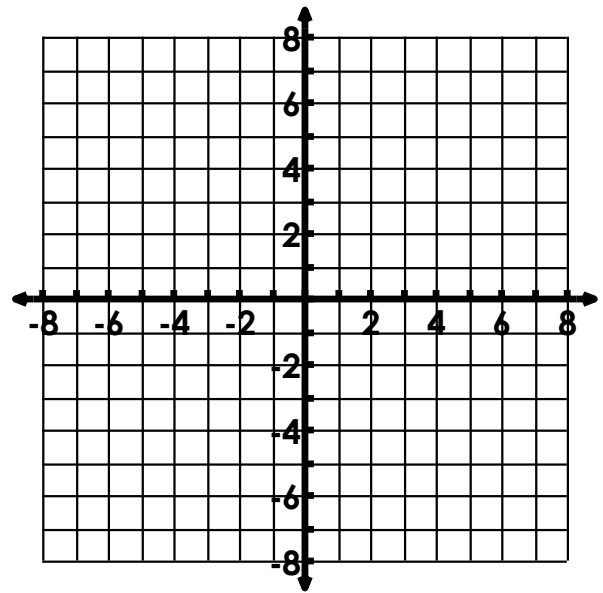
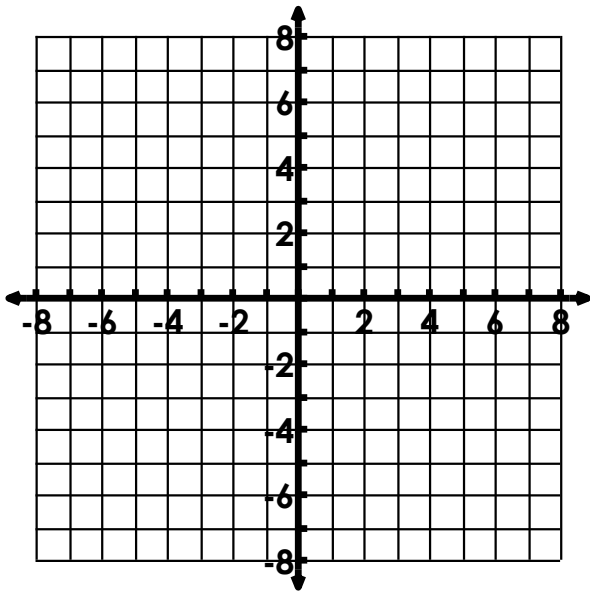
1. $y = (x + 1)(x - 3)$

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



3. $y = (x - 5)(x + 3)$

4. $y = \frac{1}{2}(x + 2)(x - 6)$

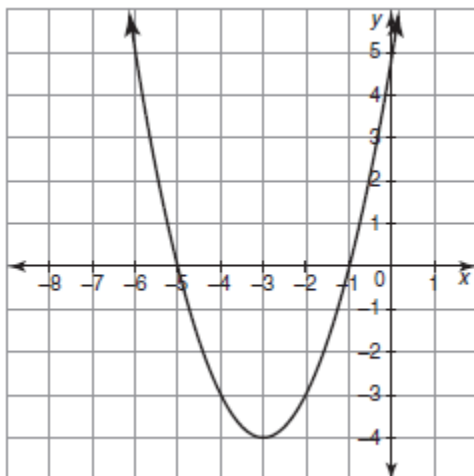


Write an equation for the following descriptions or graphs in intercept (factored) form. Assume there are no stretches or shrinks with each graph.

5. Write a quadratic function that represents a parabola that opens down and has x-intercepts of $(-2, 0)$ & $(5, 0)$.

6. Write a quadratic function that represents a parabola that opens up and has x-intercepts of $(3, 0)$ and $(7, 0)$.

7.



8.

