

**Day 6 – Graphing in Standard Form
Practice Assignment**

Name: _____

Date: _____ Block: _____

Convert the following equations from vertex to standard form and find the y-intercept:

a. $y = (x - 2)^2 - 8$

b. $y = (x + 7)^2$

Find the vertex of the following:

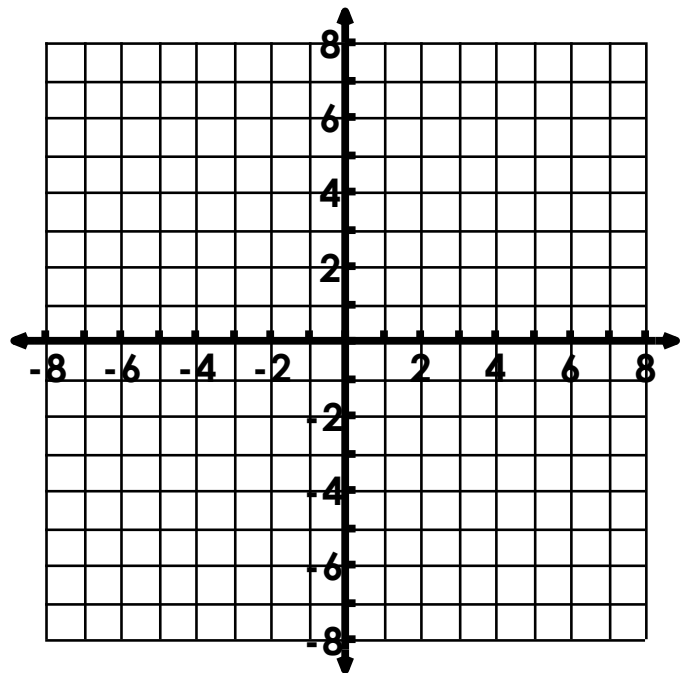
c. $y = 3x^2 - 18x + 17$

d. $y = -x^2 + 8x - 10$

Graph the following Quadratics:

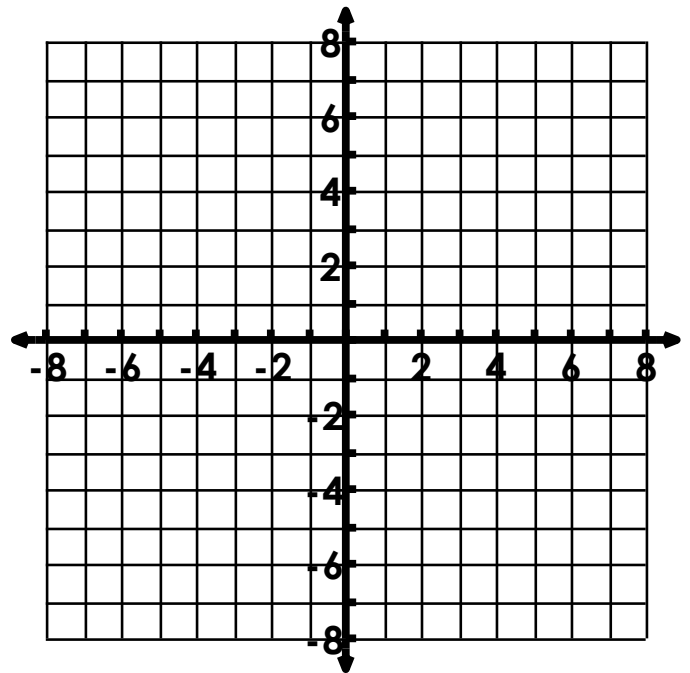
1. $y = x^2 + 6x + 6$

x					
y					



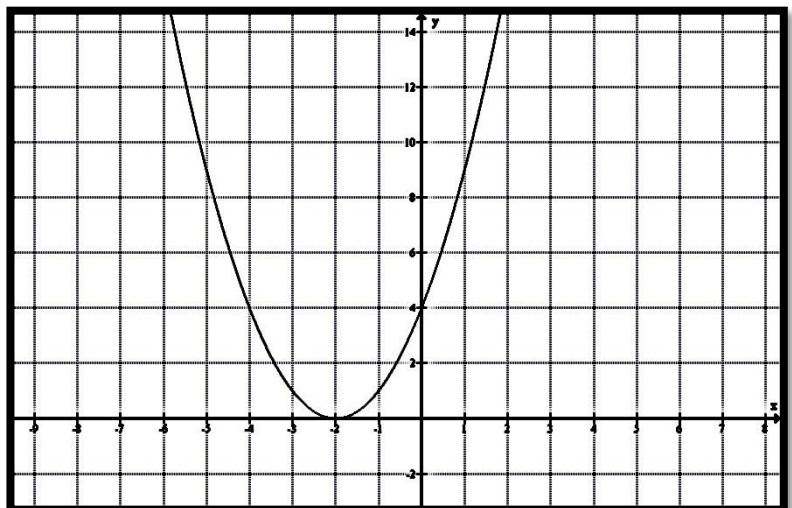
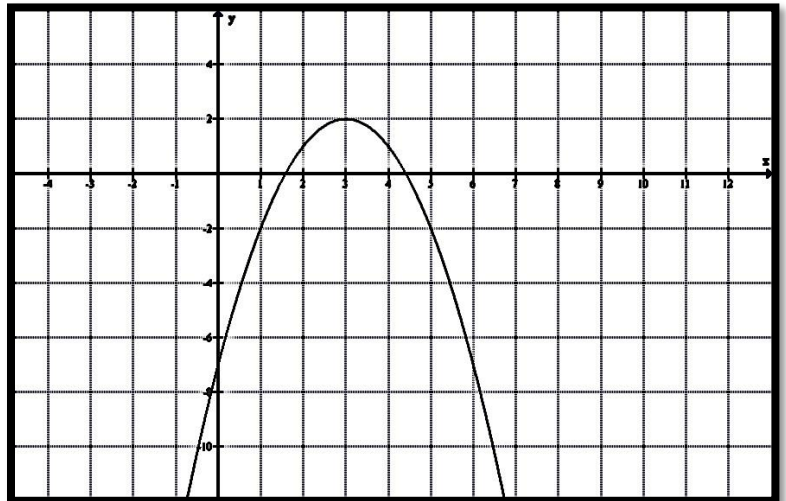
2. $y = 3x^2 + 6x$

x					
y					



Match the graph of a quadratic to an equation (there may be more than one answer):

Equations:
a. $y = (x + 2)^2$
b. $y = (x + 3)^2 + 2$
c. $y = -x^2 + 6x - 7$
d. $y = (x + 2)^2 + 1$
e. $y = x^2 + 4x + 4$
f. $y = -(x - 3)^2 + 2$



Answer (top graph)

Answer (bottom graph)
