Name: Date: Period:

Practice Worksheet: Graphing Quadratic Functions in Intercept Form

For #1-6, label the x-intercepts, axis of symmetry, vertex, y-int., and at least one more point on the graph.

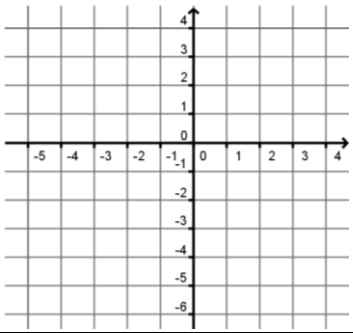
1] $y = \frac{1}{2}(x+4)(x-2)$

x-intercepts: (_____, 0) (_____, 0)

Axis of Symmetry is x=_____

Vertex: (____, ____)

y-intercept: (0,_____)



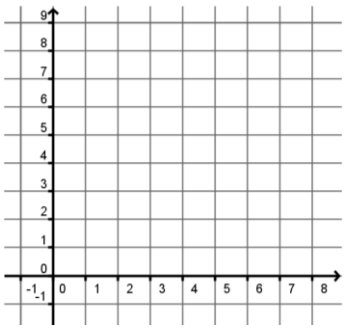
2] $y = -\frac{1}{2}x(x-8)$

x-intercepts: (_____, 0) (_____, 0)

Axis of Symmetry is x=_____

Vertex: (____, ____)

y-intercept: (0,_____)



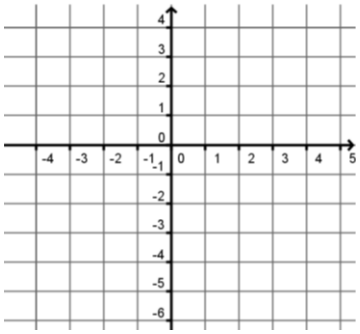
3] $y = (x+2)(x-2)$

x-intercepts: (_____, 0) (_____, 0)

Axis of Symmetry is x=_____

Vertex: (____, ____)

y-intercept: (0,_____)



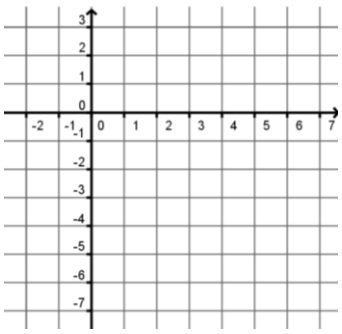
4] $y = -\frac{1}{3}(x+1)(x-5)$

x-intercepts: (_____, 0) (_____, 0)

Axis of Symmetry is x=_____

Vertex: (____, ____)

y-intercept: (0,_____)



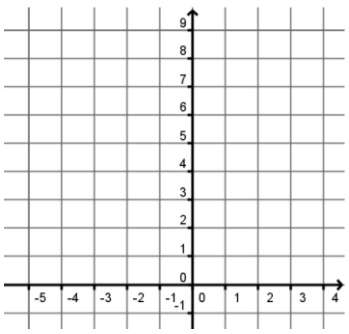
5] $y = 4(x+2)(x+1)$

x-intercepts: (_____, 0) (_____, 0)

Axis of Symmetry is x=_____

Vertex: (____, ____)

y-intercept: (0,_____)



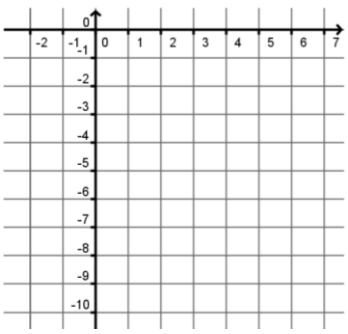
6] $y = -(x-3)(x-3)$

x-intercepts: (_____, 0) (_____, 0)

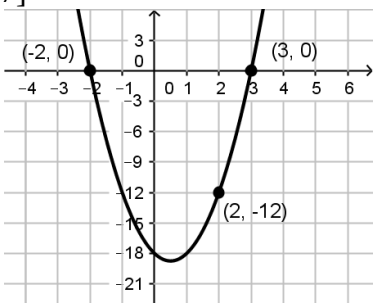
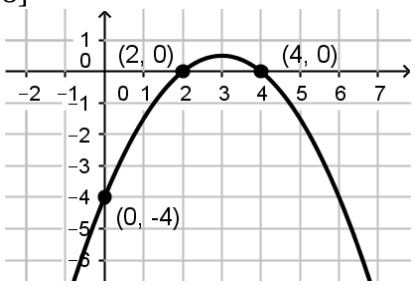
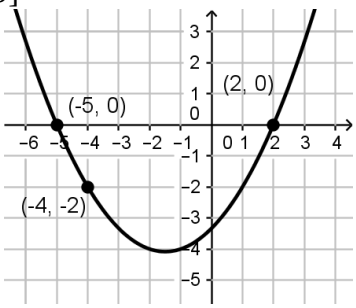
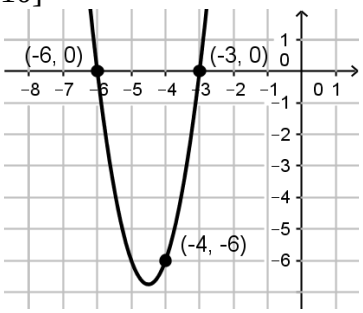
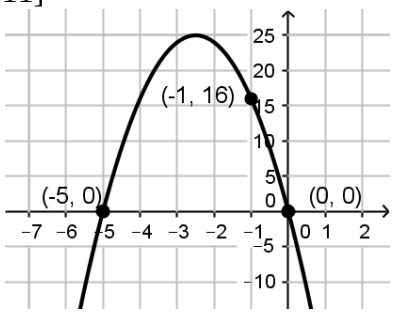
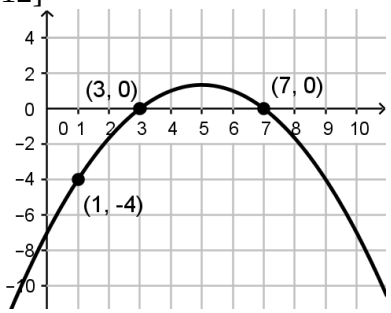
Axis of Symmetry is x=_____

Vertex: (____, ____)

y-intercept: (0,_____)



Write the equation of the parabola in intercept form.

7]  p = q = x = y = Find a. Write the equation.	8]  p = q = x = y = Find a. Write the equation.	9]  p = q = x = y = Find a. Write the equation.
10]  p = q = x = y = Find a. Write the equation.	11]  p = q = x = y = Find a. Write the equation.	12]  p = q = x = y = Find a. Write the equation.

Write the quadratic function in standard form.

13] $y = \frac{1}{2}(x+4)(x-2)$	14] $y = -(x-1)(x-1)$	15] $y = 3(x+3)(x+1)$