Name: Period:

First Score:	First attempt due:	Final Score:
	Final corrections due:	

Practice:
Quadratics 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.

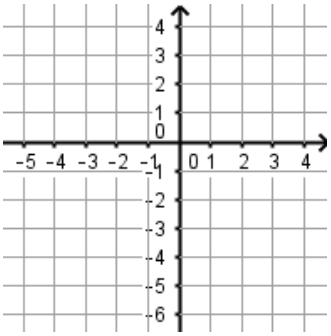
1] $y = \frac{1}{2}(x+4)(x-2)$

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

Axis of Symmetry is x=_____

Vertex: (____, ____)

y-intercept: (0,_____)
Extra point: (____, ____)



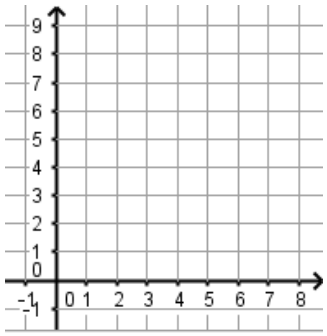
2] $y = -\frac{1}{2}x(x-8)$

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

Axis of Symmetry is x=_____

Vertex: (____, ____)

y-intercept: (0,_____)
Extra point: (____, ____)



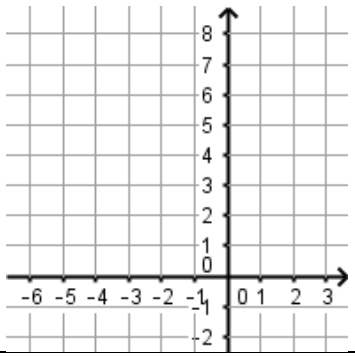
3] $y = (x+3)(x+1)$

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

Axis of Symmetry is x=_____

Vertex: (____, ____)

y-intercept: (0,_____)
Extra point: (____, ____)



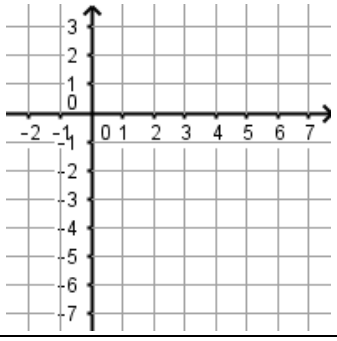
4] $y = -\frac{1}{3}(x+1)(x-5)$

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

Axis of Symmetry is x=_____

Vertex: (____, ____)

y-intercept: (0,_____)
Extra point: (____, ____)



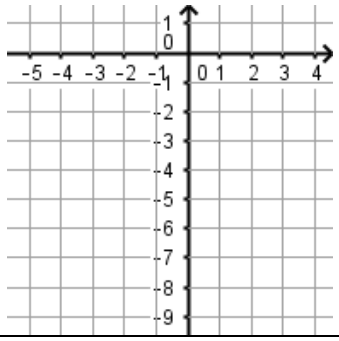
5] $y = 2(x+2)(x-2)$

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

Axis of Symmetry is x=_____

Vertex: (____, ____)

y-intercept: (0,_____)
Extra point: (____, ____)



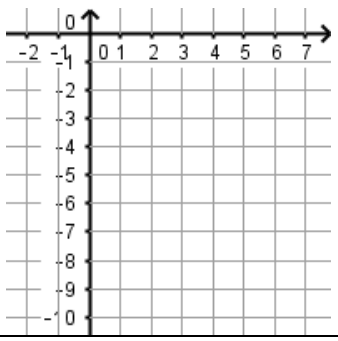
6] $y = -(x-3)(x-3)$

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

Axis of Symmetry is x=_____

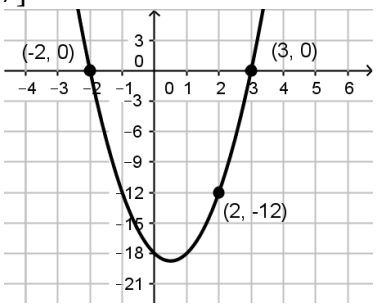
Vertex: (____, ____)

y-intercept: (0,_____)
Extra point: (____, ____)



Write the equation of the parabola in intercept form. Show all work.

7]

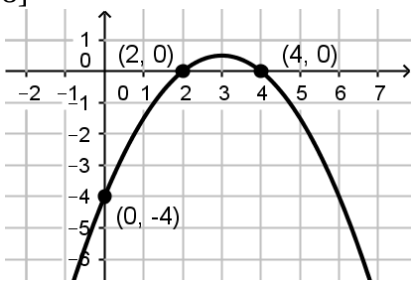


p = q = x = y =

Find a.

Write the equation.

8]

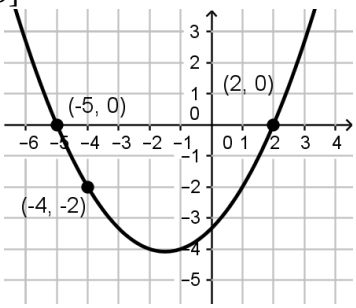


p = q = x = y =

Find a.

Write the equation.

9]

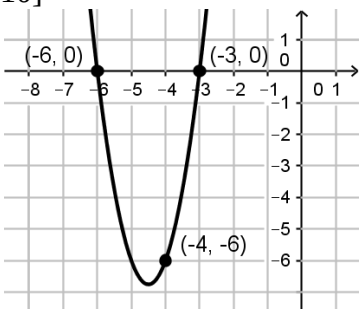


p = q = x = y =

Find a.

Write the equation.

10]

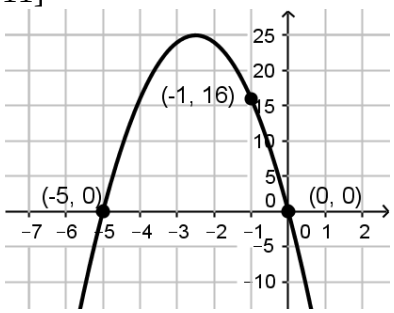


p = q = x = y =

Find a.

Write the equation.

11]

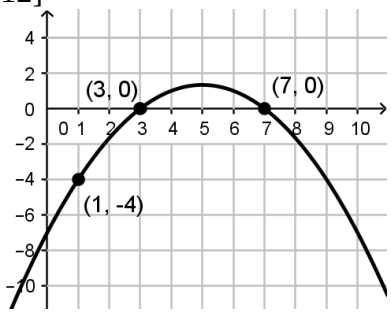


p = q = x = y =

Find a.

Write the equation.

12]



p = q = x = y =

Find a.

Write the equation.

Write the quadratic function in standard form. Show all work.

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

14] $y = -(x-1)(x-1)$

15] $y = 3(x+3)(x+1)$