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

a = p = q =

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

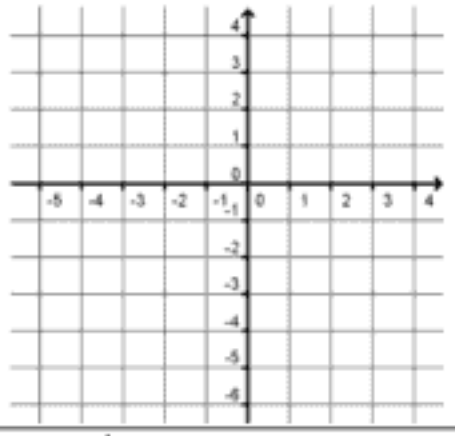
Axis of Symmetry is x=_____

Vertex: (____, ____)

Opens up or down?

Slope to pt one unit from vertex:

y-intercept: (0,_____)



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

a = p = q =

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

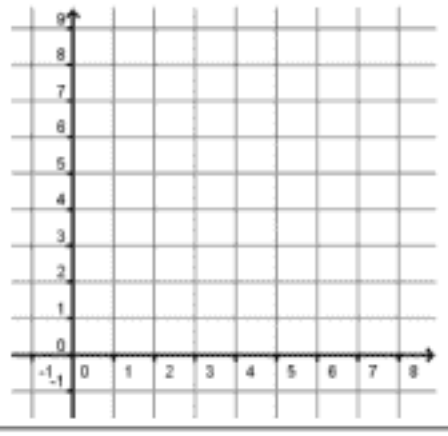
Axis of Symmetry is x=_____

Vertex: (____, ____)

Opens up or down?

Slope to pt one unit from vertex:

y-intercept: (0,_____)



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

a = p = q =

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

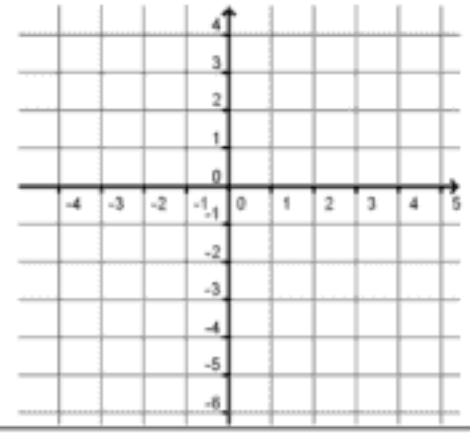
Axis of Symmetry is x=_____

Vertex: (____, ____)

Opens up or down?

Slope to pt one unit from vertex:

y-intercept: (0,_____)



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

a = p = q =

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

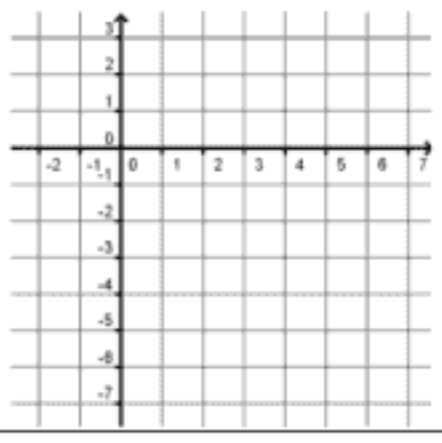
Axis of Symmetry is x=_____

Vertex: (____, ____)

Opens up or down?

Slope to pt one unit from vertex:

y-intercept: (0,_____)



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

a = p = q =

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

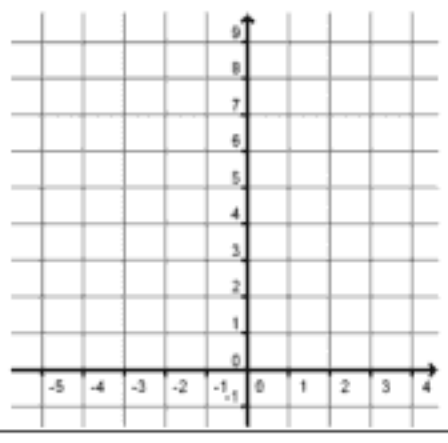
Axis of Symmetry is x=_____

Vertex: (____, ____)

Opens up or down?

Slope to pt one unit from vertex:

y-intercept: (0,_____)



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

a = p = q =

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

Axis of Symmetry is x=_____

Vertex: (____, ____)

Opens up or down?

Slope to pt one unit from vertex:

y-intercept: (0,_____)