

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

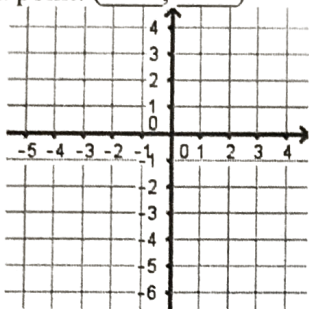
x-intercepts: (____, 0) (____, 0)

Axis of Symmetry is $x =$ _____

Vertex: (____, ____)

y-intercept: (0, ____)

Extra point: (____, ____)



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

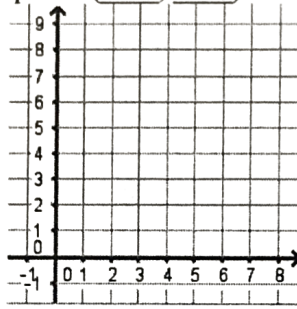
x-intercepts: (____, 0) (____, 0)

Axis of Symmetry is $x =$ _____

Vertex: (____, ____)

y-intercept: (0, ____)

Extra point: (____, ____)



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

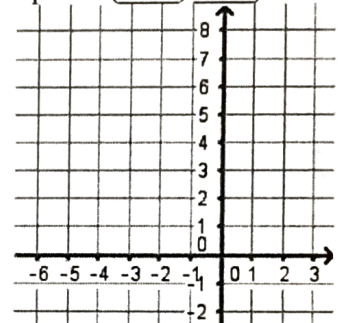
x-intercepts: (____, 0) (____, 0)

Axis of Symmetry is $x =$ _____

Vertex: (____, ____)

y-intercept: (0, ____)

Extra point: (____, ____)



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

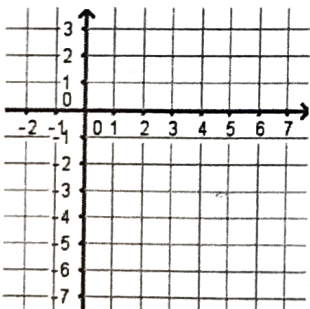
x-intercepts: (____, 0) (____, 0)

Axis of Symmetry is $x =$ _____

Vertex: (____, ____)

y-intercept: (0, ____)

Extra point: (____, ____)



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

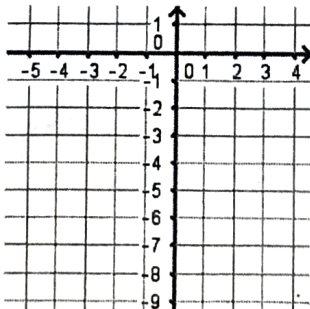
x-intercepts: (____, 0) (____, 0)

Axis of Symmetry is $x =$ _____

Vertex: (____, ____)

y-intercept: (0, ____)

Extra point: (____, ____)



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

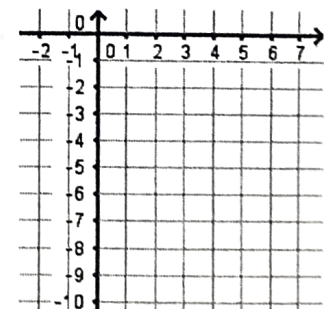
x-intercepts: (____, 0) (____, 0)

Axis of Symmetry is $x =$ _____

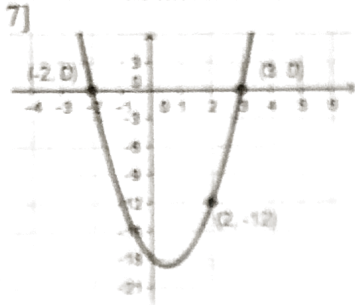
Vertex: (____, ____)

y-intercept: (0, ____)

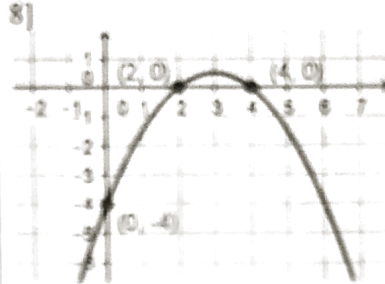
Extra point: (____, ____)



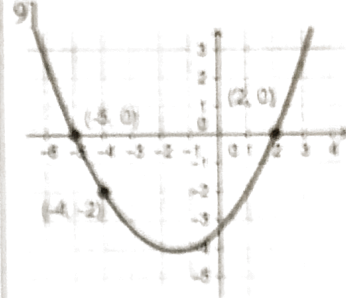
Write the equation of the parabola in intercept form. Show all work.



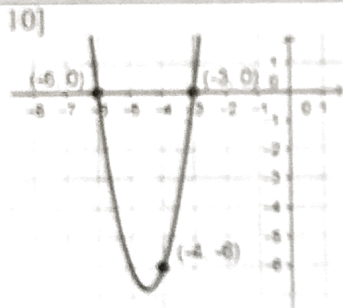
Write the equation.



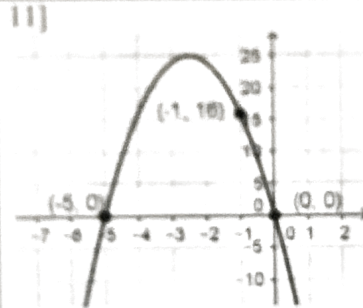
Write the equation.



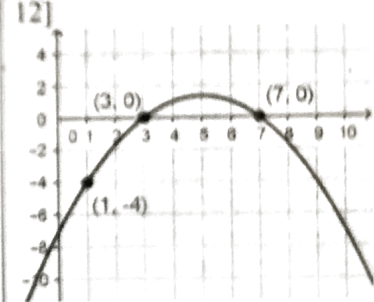
Write the equation.



Write the equation.



Write the equation.



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