

Name: _____

Date: _____

Pre Calculus 11: Ch4 Quadratic Functions Lesson 11: Determining the Equations of a Parabola

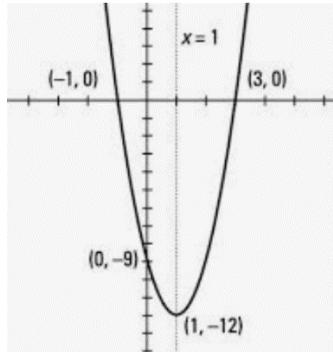
1. Given the vertex and a point on the parabola, find the equation of the parabola:

a) Vertex (0,2) and Point (-3,11)	b) Vertex (3,0) and point (2,10)
c) Vertex (5,-8) and X intercept (3,0)	d) Vertex (6,-20) and X intercept of (-2,0)
e) Vertex (-2,4) and Y-intercept (0,12)	f) Vertex (3,10) and Y-intercept (0,-12)
g) Vertex (3,-1) and X intercepts 2 and 4	h) X intercepts 3 and 9. Y-intercept 12

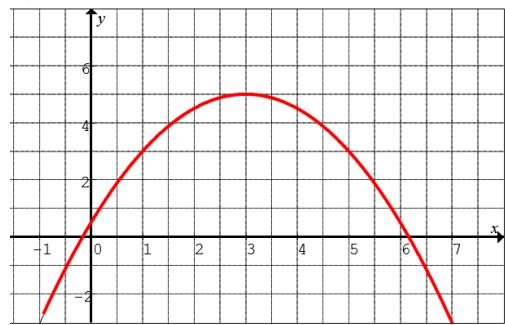
2. Given the X and Y intercepts of the parabola, determine its equation:
 X-intercepts $(-6, 0)$ and $(8, 0)$. Y-intercept $(0, 12)$

3. Given the graph of each parabola, determine its equation:

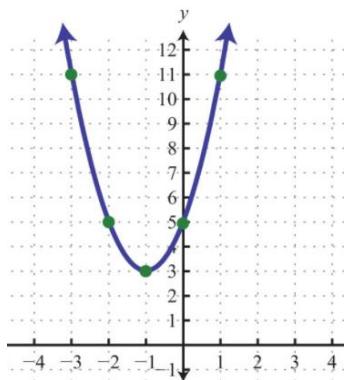
a)



b)



c)



d) Challenge:

