

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:

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|-------------------------------------------|---------------------------------------------|
| 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 it's equation:
 X-intercepts $(-6,0)$ and $(8,0)$. Y-intercept $(0,12)$

3. Given the graph of each parabola, determine it's equation:

