

SECTION 2.4: MODELING WITH QUADRATIC FUNCTIONS – PART I

Homework: _____

Learning Targets:

2e. Understanding of how to write quadratic functions given points, vertex, or intercepts.

Vertex Form

$$y = a(x - h)^2 + k$$

Intercept Form

$$y = a(x - p)(x - q)$$

How to Write a Quadratic Equation When Given a Vertex and a Point

Example #1: Vertex (3, 5) and point (6, 23)

How to Write a Quadratic Equation When Given a X-Intercepts and a Point

Example #1: x-intercepts of -2 and 3; passes through point (-1, -16)