

Parent Equations	Transformed Equations	Sketch	Locator Point and Significance

How to find x and y intercepts

$$y = \frac{1}{4}(x - 5)^2 - 4$$

How to write equations from a graph and a statement:

A parabola that has a vertex at (1,1) that goes through the point (-4,76)

Find the vertex and convert to vertex form

$$y = x^2 - 24x + 16$$

Find the vertex and describe the transformation

$$x = (y + 1)^2 - 3$$

Piecewise Functions