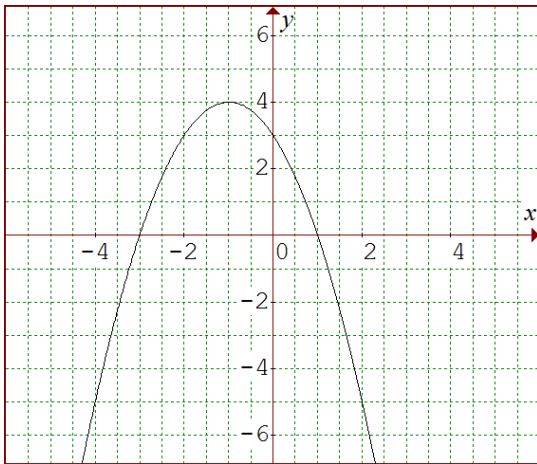


9-1 Quadratic Graphs and Their Properties

1. Given the quadratic graph below, identify the following:



a. Vertex: _____ Is vertex max or min? _____

b. Domain:

Range:

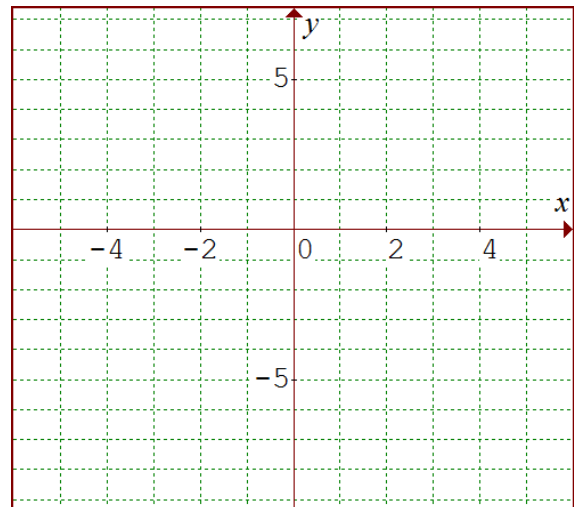
c. Equation of axis of symmetry:

2. Given the quadratic function $y = \frac{1}{2}x^2 - 8$

a. Choose appropriate values for x and complete the table below (min 5 points):

x	$y = \frac{1}{2}x^2 - 8$	y

b. Use your points to graph the function. Graph accurately to the edge of the grid.



3. Put the following quadratic functions in order from widest to narrowest:

$y = 2x^2$, $y = -\frac{1}{3}x^2$, $y = \frac{1}{4}x^2$