

Algebra 2
Unit: Conic Sections
Section: Parabolas

Review Worksheet Key

1) Name the vertex, directrix and focus of the following parabolas. Then graph the parabola.

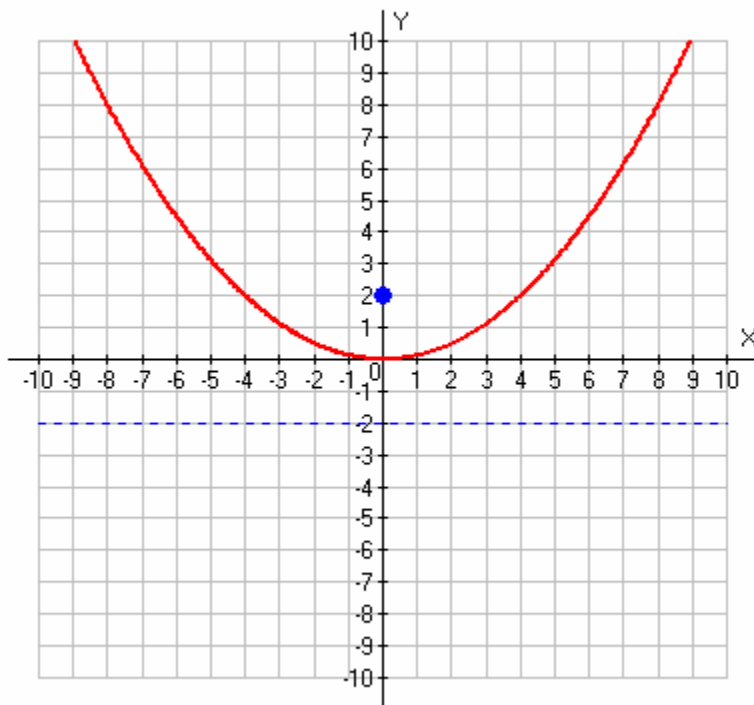
a. $y = \frac{1}{8}x^2$

Vertex: $(0, 0)$

Directrix: $y = -2$

Focus: $(0, 2)$

Graph:



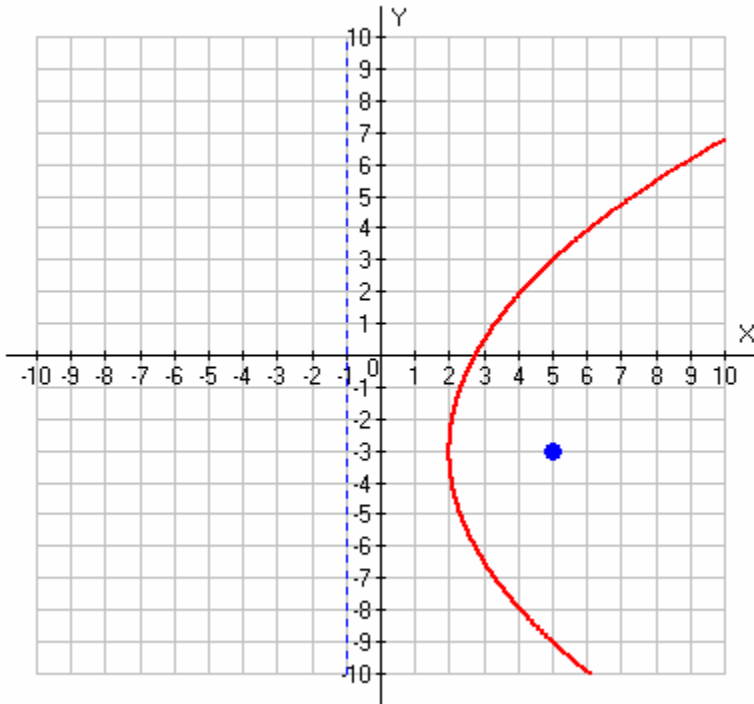
b. $x - 2 = \frac{1}{12}(y + 3)^2$

Vertex: $(2, -3)$

Directrix: $x = -1$

Focus: $(5, -3)$

Graph:



c. $y - 4 = -\frac{1}{16}(x + 1)^2$

Vertex: $(-1, 4)$

Directrix: $y = 8$

Focus: $(-1, 0)$

Graph:

