

Graphing Parabolas with Vertex at (0,0)

Name _____

Date _____ Period _____

Graph the following parabola

$$y = \frac{1}{16}x^2$$

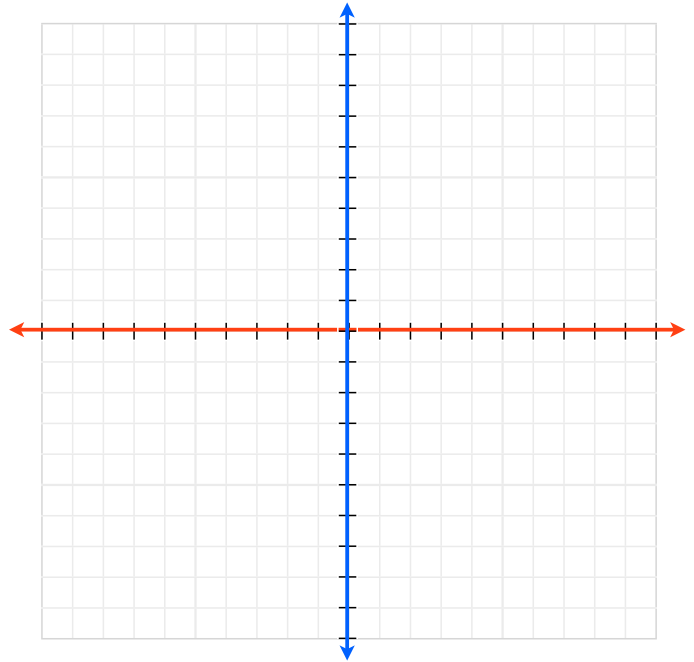
Vertex

Focus

Directrix

Axis of Symmetry

Focal Width



Graph the following parabola

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

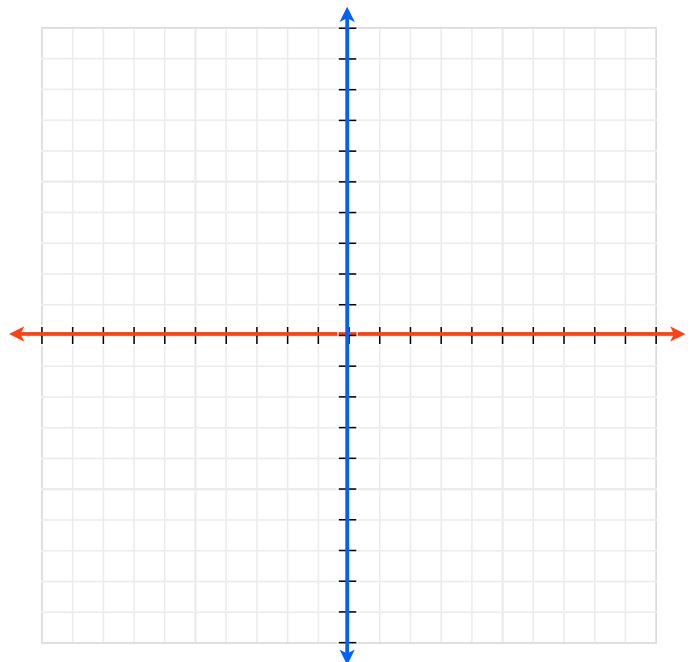
Vertex

Focus

Directrix

Axis of Symmetry

Focal Width



Graph the following parabola

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

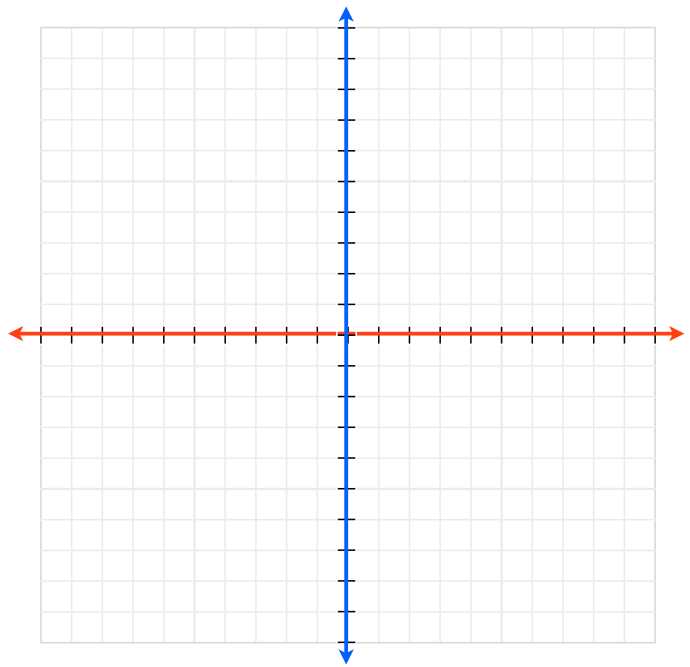
Vertex

Focus

Directrix

Axis of Symmetry

Focal Width



Graph the following parabola

$$x = \frac{1}{12}y^2$$

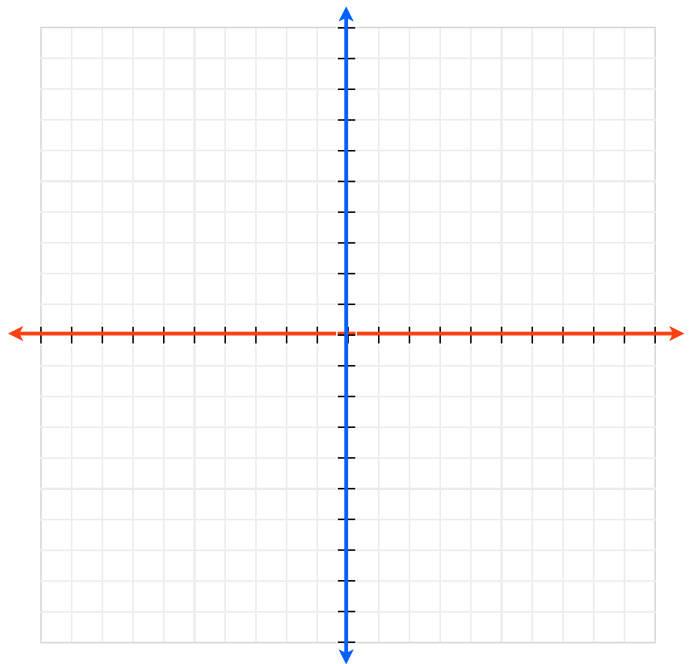
Vertex

Focus

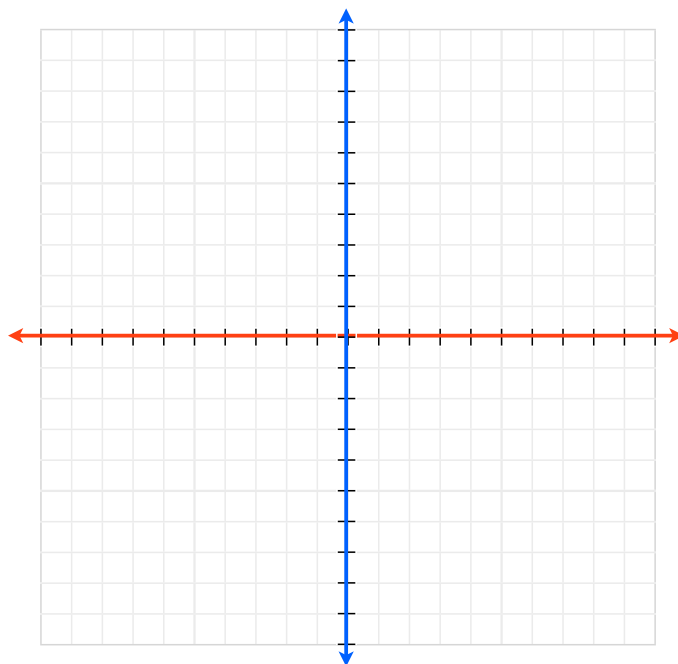
Directrix

Axis of Symmetry

Focal Width



Find the equation of a parabola with vertex at $(0,0)$ and focus at point $(-2,0)$.



Find the equation of a parabola with vertex at $(0,0)$ and directrix at line $y = -4$.

