

Graphing Hyperbolas with Center (0,0)

Name _____

Date _____ Period _____

Graph the following hyperbola

$$\frac{x^2}{9} - \frac{y^2}{16} = 1$$

Horizontal/ Vertical

Domain

Center

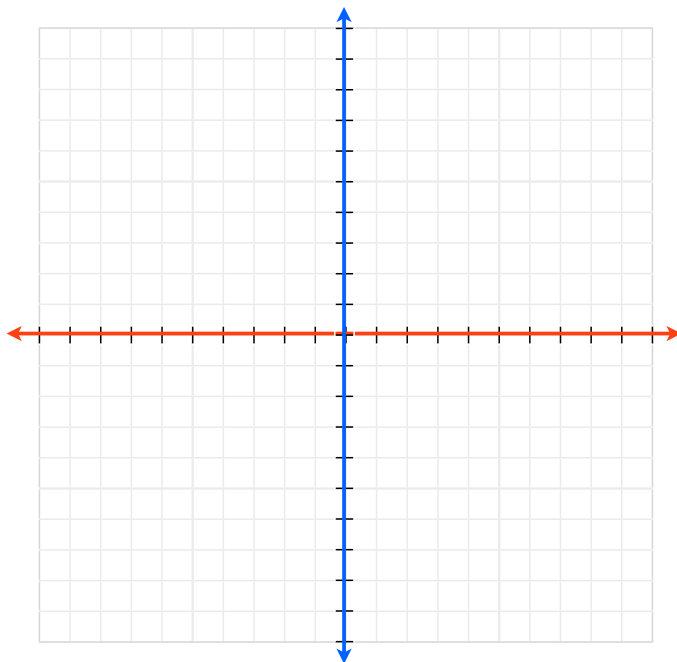
Range

Slope of Asymptotes

Vertices

Co-Vertices

Foci



Graph the following hyperbola

$$\frac{y^2}{16} - \frac{x^2}{9} = 1$$

Horizontal/ Vertical

Domain

Center

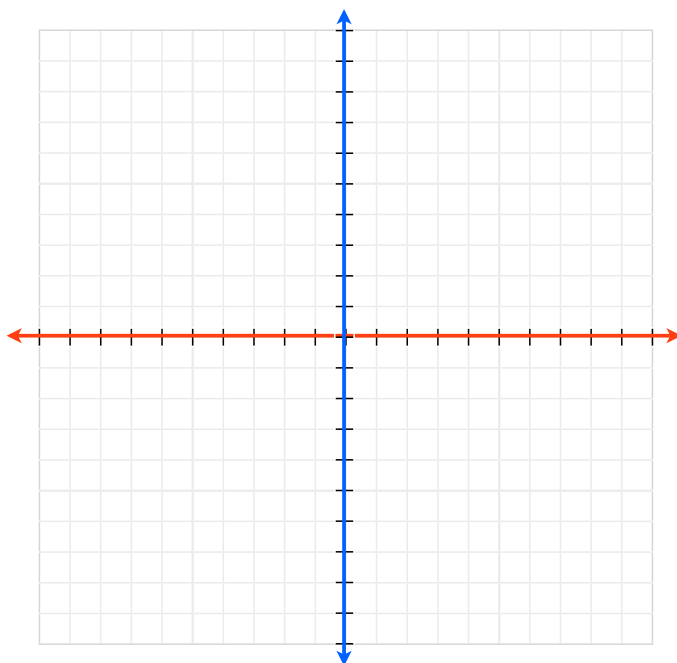
Range

Slope of Asymptotes

Vertices

Co-Vertices

Foci



Graph the following hyperbola

$$\frac{x^2}{64} - \frac{y^2}{36} = 1$$

Horizontal/Vertical

Center

Slope of Asymptotes

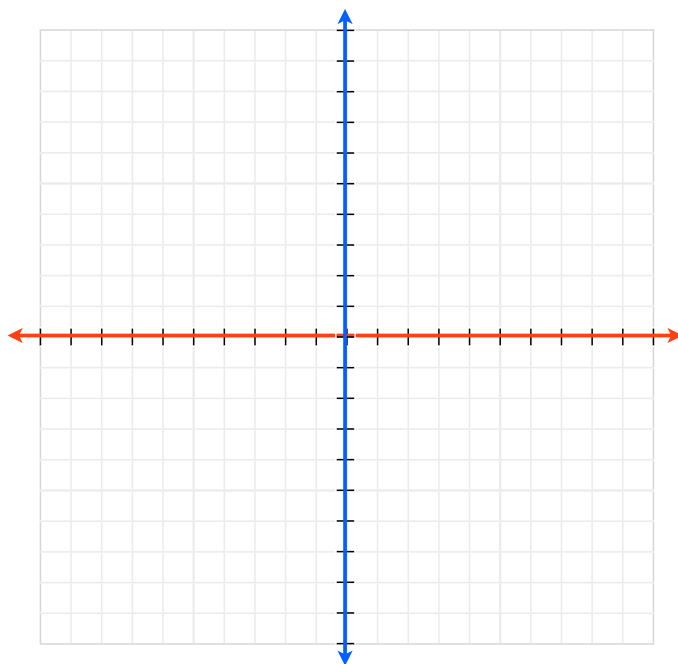
Vertices

Co-Vertices

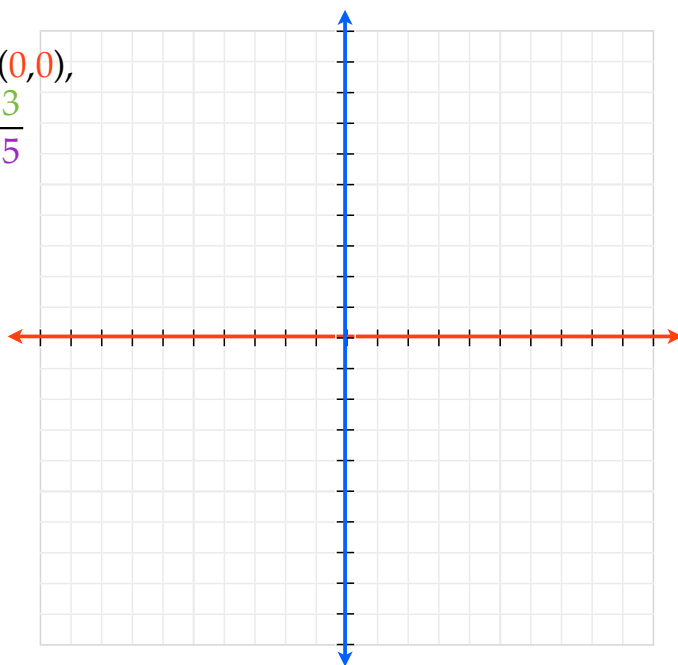
Foci

Domain

Range



Find the equation of a hyperbola with center $(0,0)$,
vertex at $(5,0)$ and slope of asymptotes $m = \pm \frac{3}{5}$



Find the equation of a hyperbola with center $(0,0)$, vertex at $(0,-6)$ and focus at $(0,-10)$

