







































### Example 3

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

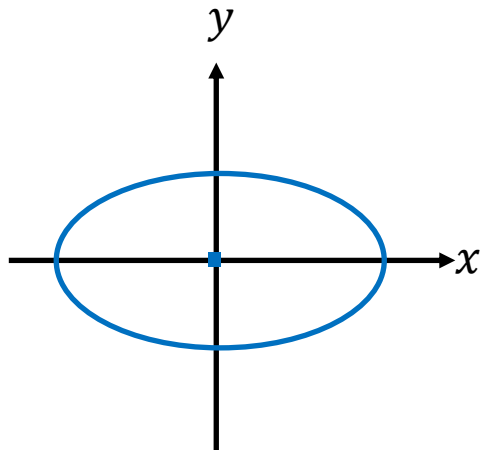
Name : Oblate Ellipse

Center : (0,0)

Major axis :  $x$  -axis

Minor axis :  $y$  -axis

Vertex : (-4,0) and (4,0)



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

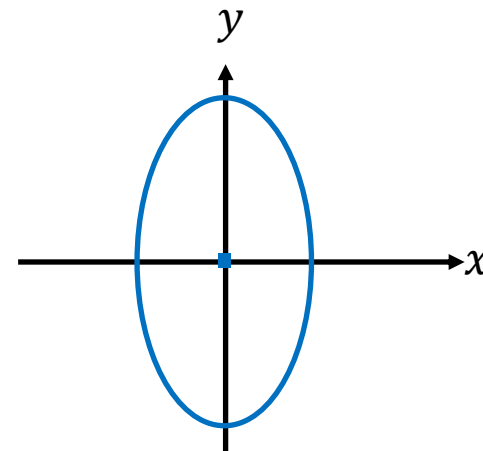
Name : Prolate Ellipse

Center : (0,0)

Major axis :  $y$  -axis

Minor axis :  $x$  -axis

Vertex : (0,-4) and (0,4)



## Example 4

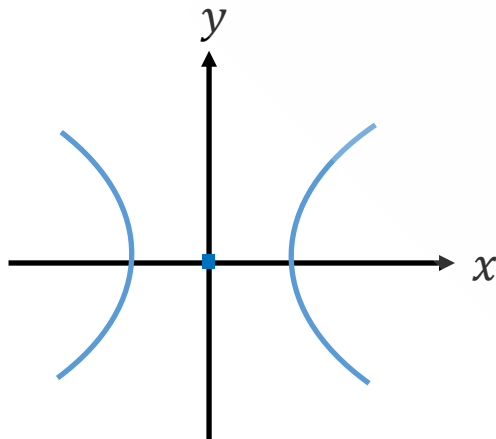
$$\frac{x^2}{16} - \frac{y^2}{9} = 1$$

Name : Hyperbola

Center : (0,0)

Major axis :  $x$  -axis

Vertex : (-4,0) and (4,0)



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

Name : Hyperbola

Center : (0,0)

Major axis :  $y$  -axis

Vertex : (0,-3) and (0,3)

