

Conic Sections- Algebra

Circle

$$(x - h)^2 + (y - k)^2 = r^2$$

$$Ax^2 + By^2 + Cx + Dy + E = 0$$

$$A = B \neq 0$$

Center: (h, k) , Radius = r



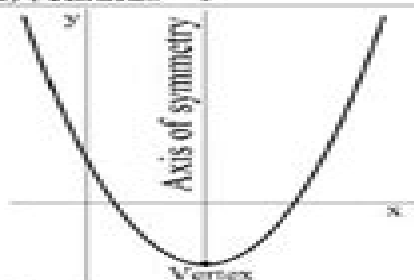
Parabola

$$y = a(x - h)^2 + k$$

Vertex: (h, k)

Axis of Symmetry:

$$x = h$$

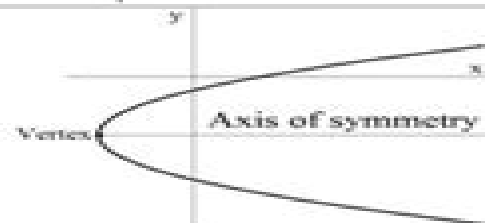


$$x = a(y - k)^2 + h$$

Vertex: (h, k)

Axis of Symmetry:

$$y = k$$

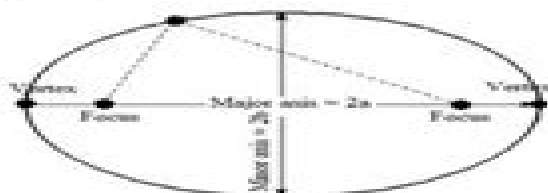


Ellipse

$$\frac{(x - h)^2}{a^2} + \frac{(y - k)^2}{b^2} = 1$$

If $a > b$

Center: (h, k)



If $a < b$

$$\frac{(x - h)^2}{a^2} + \frac{(y - k)^2}{b^2} = 1$$

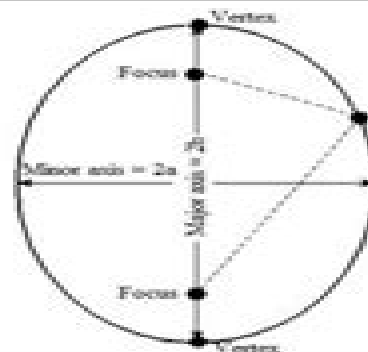
Center: (h, k)

Vertices on Major Axis:

$(h, k + b)$ & $(h, k - b)$

Vertices on Minor Axis:

$(h + a, k)$ & $(h - a, k)$



Vertices on Major Axis: $(h + a, k)$ & $(h - a, k)$

Vertices on Minor Axis: $(h, k + b)$ & $(h, k - b)$

Hyperbola

$$\frac{(x - h)^2}{a^2} - \frac{(y - k)^2}{b^2} = 1$$

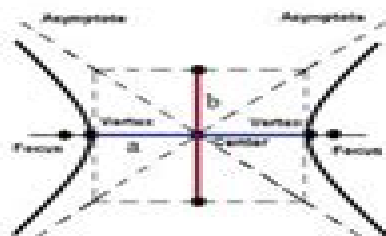
Center: (h, k)

Vertices: $(h + a, k)$

and $(h - a, k)$

Asymptotes:

$$y - k = \pm \frac{b}{a}(x - h)$$



$$\frac{(y - k)^2}{b^2} - \frac{(x - h)^2}{a^2} = 1$$

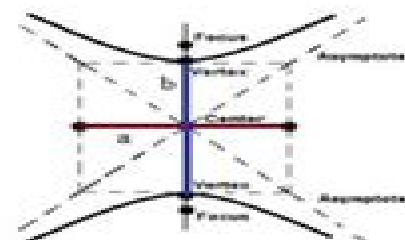
Center: (h, k)

Vertices: $(h, k + b)$

and $(h, k - b)$

Asymptotes:

$$y - k = \pm \frac{b}{a}(x - h)$$



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Michael Smith



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