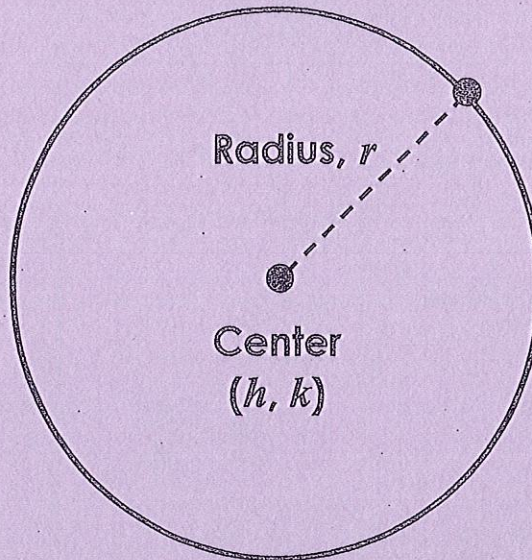
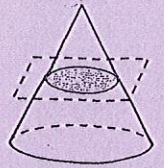


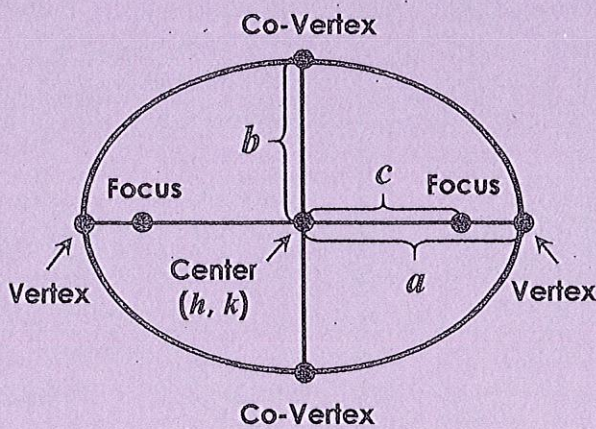
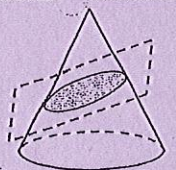
# CIRCLE



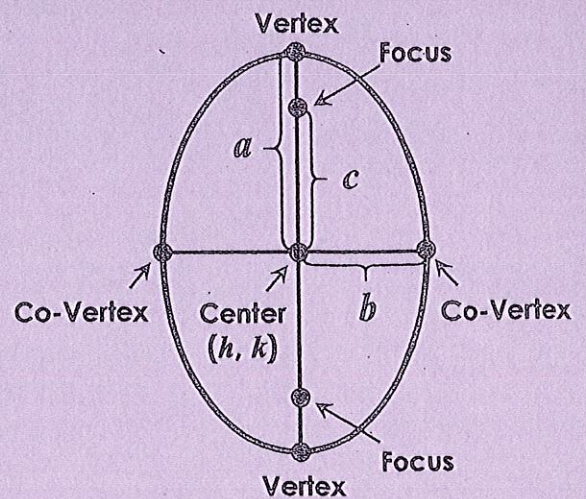
$$(x - h)^2 + (y - k)^2 = r^2$$

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# ELLIPSE



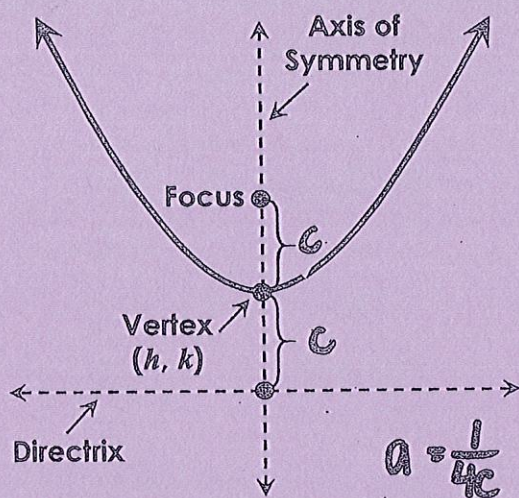
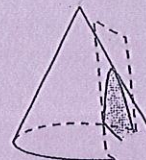
$$\frac{(x - h)^2}{a^2} + \frac{(y - k)^2}{b^2} = 1$$



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

FORMULA FOR C:  $c^2 = a^2 - b^2$

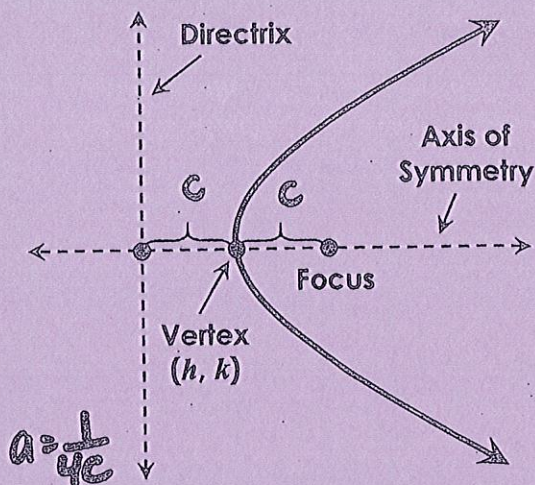
# PARABOLA



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

Opens UP if  $a > 0$

Opens DOWN if  $a < 0$

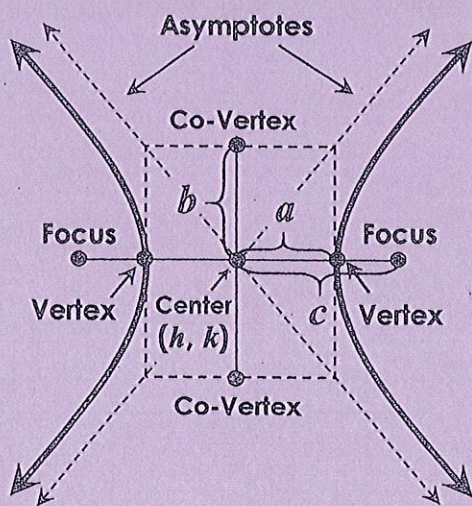


$$x = a(y - k)^2 + h$$

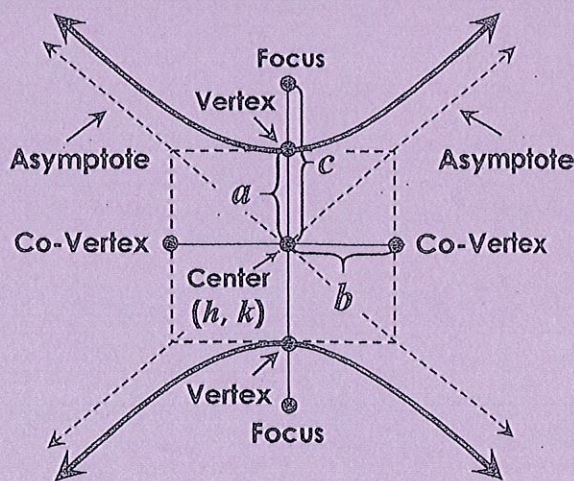
Opens RIGHT if  $a > 0$

Opens LEFT if  $a < 0$

# HYPERBOLA



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



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

FORMULA FOR C:  $c^2 = a^2 + b^2$