CALCULUS 1
ANALYTIC GEOMETRY
Cheat Sheet

CONIC SECTIONS

parabola   circle   ellipse   hyperbola

CARTESIAN PLANE

Cartesian coordinates (x, y)

Quadrant II   Quadrant I

Quadrant III   Quadrant IV

origin $(0,0)$

x-axis

y-axis

DISTANCE FORMULA

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

MIDPOINT FORMULA

$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

SLOPE FORMULA

$$\text{Slope} = m = \frac{rise}{run} = \frac{y_2 - y_1}{x_2 - x_1}$$

5 EQUATION OF A LINE

SLOPE-INTERCEPT FORM
$$y = mx + b$$

POINT-SLOPE FORM
$$y - y_1 = m(x - x_1)$$

INTERCEPT FORM
$$\frac{x}{a} + \frac{y}{b} = 1$$

TWO-POINT FORM
$$y - y_1 = \frac{y_2 - y_1}{x_2 - x_1}(x - x_1)$$
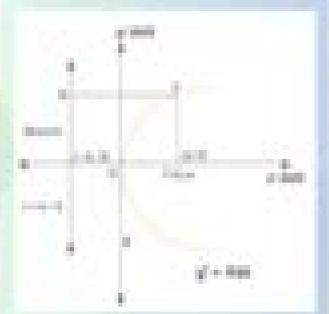
GENERAL FORM
$$ax + by + c = 0$$

CIRCLE

Center
$$(0,0) \quad x^2 + y^2 = r^2$$
$$(h,k) \quad (x-h)^2 + (y-k)^2 = r^2$$

PARABOLA

Vertex $(0,0)$ (h,k)
$$y^2 = 4px \quad (x-h)^2 = 4p(y-k)$$
$$y^2 = -4py \quad (x-h)^2 = -4p(y-k)$$
$$y^2 = 4px \quad (y-k)^2 = 4p(x-h)$$
$$y^2 = -4px \quad (y-k)^2 = -4p(x-h)$$
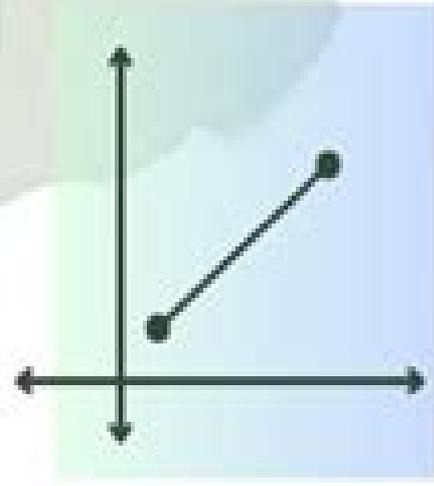
ELLIPSES

Center $(0,0)$ (h,k)
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1 \quad \frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$$
$$\frac{x^2}{b^2} + \frac{y^2}{a^2} = 1 \quad \frac{(x-h)^2}{b^2} + \frac{(y-k)^2}{a^2} = 1$$
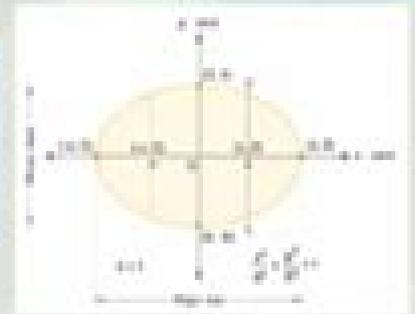
HYPERBOLA

Center $(0,0)$ (h,k)
$$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1 \quad \frac{(x-h)^2}{a^2} - \frac{(y-k)^2}{b^2} = 1$$
$$\frac{y^2}{a^2} - \frac{x^2}{b^2} = 1 \quad \frac{(y-k)^2}{a^2} - \frac{(x-h)^2}{b^2} = 1$$
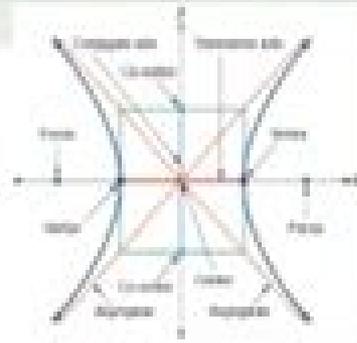
Calculus And Analytic Geometry

Terry C. Jones

Calculus And Analytic Geometry:

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