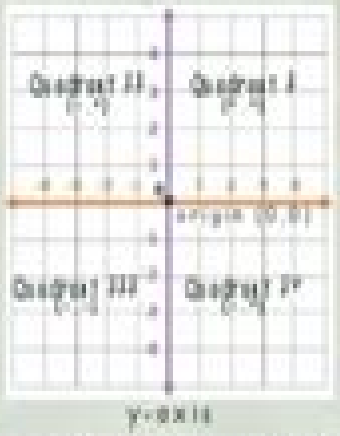
CALCULUS 1
ANALYTIC GEOMETRY
Cheat Sheet

CARTESIAN PLANE



DISTANCE FORMULA

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

MIDPOINT FORMULA

SLOPE FORMULA

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

5 EQUATION OF A LINE

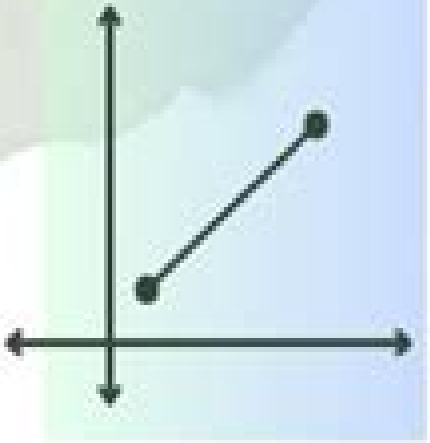
SLOPE-INTERCEPT FORM
$y = mx + b$

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

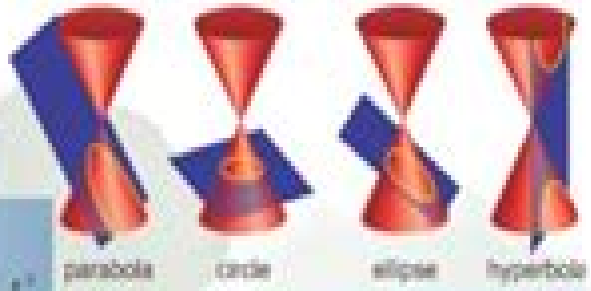
INTERCEPT FORM
$\frac{x}{a} + \frac{y}{b} = 1$

TWO-POINT FORM
$y - y_1 = \frac{y_2 - y_1}{x_2 - x_1}(x - x_1)$

GENERAL FORM
$Ax + By + C = 0$



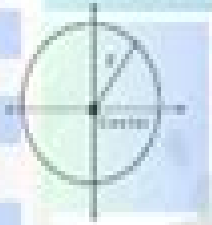
CONIC SECTIONS



CIRCLE

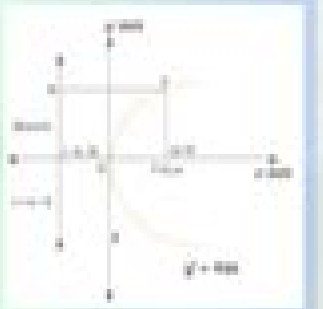
Center (0,0) $x^2 + y^2 = r^2$

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



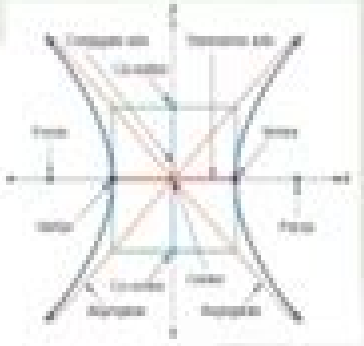
PARABOLA

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



ELLIPSES

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



HYPERBOLA

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

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Maurice D. Weir,Ross L. Finney,George Brinton Thomas

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