

CALCULUS 1

ANALYTIC GEOMETRY

Cheat Sheet

CARTESIAN PLANE



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**
 $ax + by + c = 0$

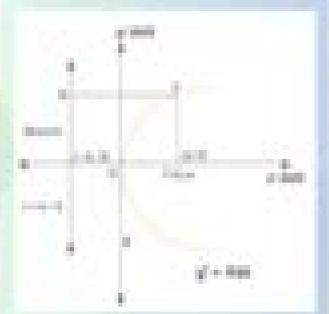
CIRCLE

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



PARABOLA

Vertex (0,0) $y = ax^2 + bx + c$
 (h,k) $(x-h)^2 = 4p(y-k)$
 $(x-h)^2 = -4p(y-k)$
 $(x-h)^2 = 4p(x-k)$
 $(x-h)^2 = -4p(x-k)$



DISTANCE FORMULA

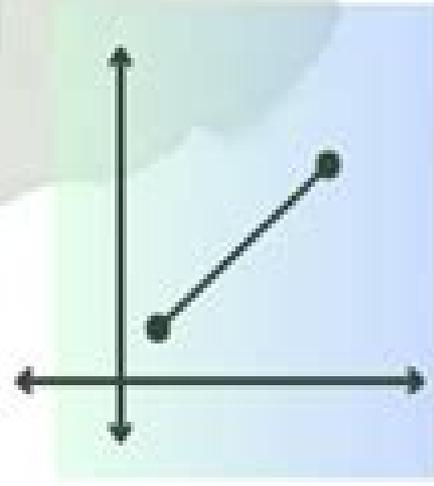


MIDPOINT FORMULA



SLOPE FORMULA

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

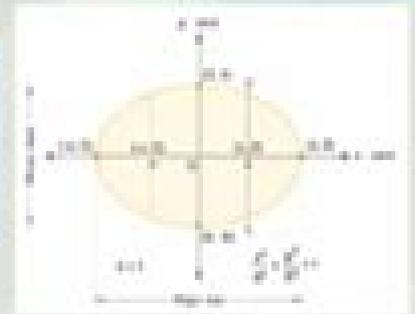


CONIC SECTIONS



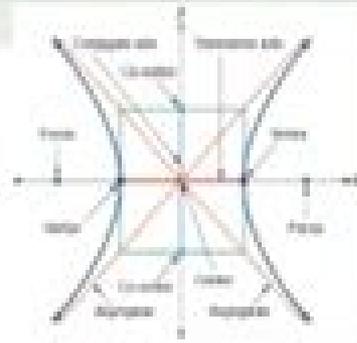
ELLIPSES

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



HYPERBOLA

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



Calculus With Analytic Geometry With Calculus Discovering Calculus With Derivatives

Joacim Rocklöv



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