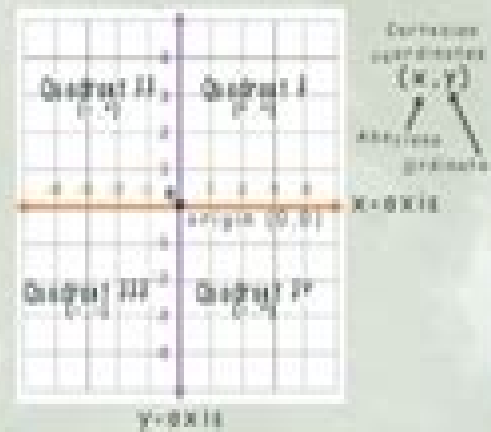


# CALCULUS 1 ANALYTIC GEOMETRY *Cheat Sheet*

## CARTESIAN PLANE

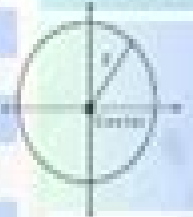


## 5 EQUATION OF A LINE

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



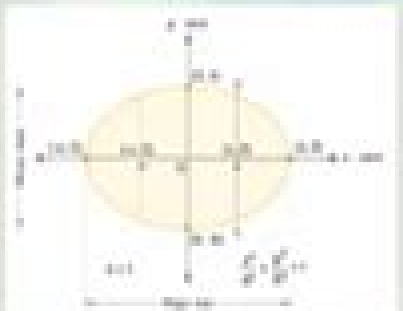
## PARABOLA

Vertex (0,0)  $y = ax^2$   
 (h,k)  $y - k = a(x - h)^2$



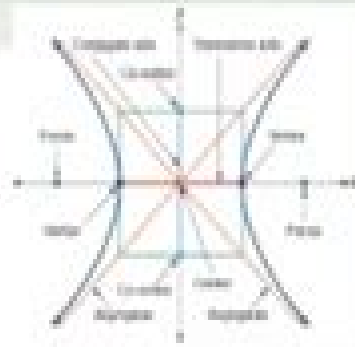
## ELLIPSES

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



## DISTANCE FORMULA

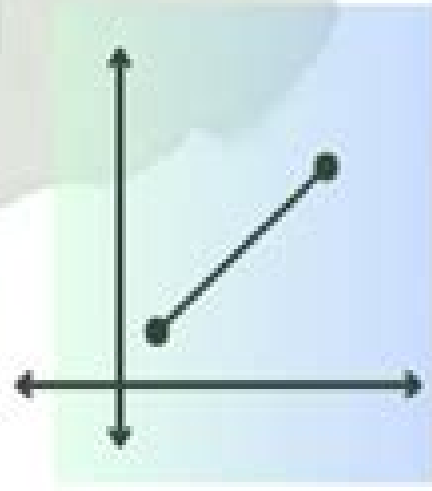


## MIDPOINT FORMULA

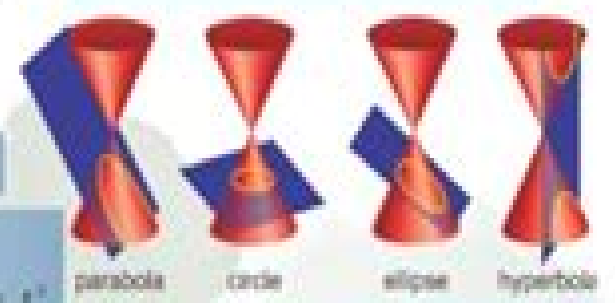


## SLOPE FORMULA

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



## CONIC SECTIONS



# Calculus With Analytic Geometry

**Charles Henry Edwards**



## **Calculus With Analytic Geometry:**

**Calculus and Analytic Geometry** Abraham Schwartz,1974      **Calculus with Analytic Geometry** Charles Henry Edwards,1998      **Calculus with Analytic Geometry** Earl William Swokowski,1979      Calculus with Analytic Geometry Paul K. Rees,Fred Winchell Sparks,1969      The Calculus with Analytic Geometry Louis Leithold,1981-01-01      Calculus with Analytic Geometry Zill,Tony Wright,Warren S. Wright,1985-01-01      **Calculus and Analytic Geometry** George Brinton Thomas,Ross L. Finney,1992      **Calculus and Analytic Geometry** George B. Thomas,Maurice D. Weir,1988      Calculus, with Analytic Geometry Angus Ellis Taylor,1959      **Calculus with Analytic Geometry** Daniel J. Fleming,James J. Kaput,1979-01-01      **Calculus and Analytic Geometry** Donald W. Trim,1983      Calculus with Analytic Geometry Richard H. Crowell,William E. Slesnick,1963      **Calculus with Analytic Geometry** Harley Flanders,Justin J. Price,2014-05-10

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**Calculus with Analytic Geometry** Mustafa A. Munem,David J. Foulis,1978

**Elements of Calculus with Analytic Geometry** Earl William Swokowski,1981-01-01      **Calculus with Analytic Geometry** George F. Simmons,1995-10-30 This work takes an intuitive approach to calculus and focuses on the application of methods to real world problems Topics new to this edition include first order nonlinear differential equations elementary probability and hyperbolic functions      Calculus with Analytic Geometry Ron Larson,Roland E. Larson,Robert P. Hostetler,David E. Heyd,1986-01-01      *Calculus and Analytic Geometry* Anthony Barcellos,Dean Hickerson,1987

**Calculus with Analytic Geometry** ,1978      Calculus with Analytic Geometry Robert Ellis,2002-10-01

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