

# MATH CONIC WORKSHEET

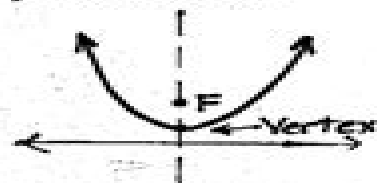
## CIRCLE



Equation  $(x-h)^2 + (y-k)^2 = r^2$   
 Conic  $Ax^2 + By^2 + Cx + Dy + F = 0$   
 $A = B$  (neither is zero)

Center =  $(h, k)$   
 radius =  $r$

## PARABOLA

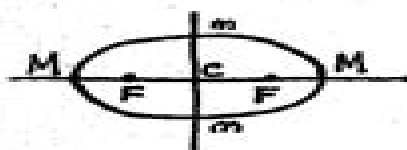


Equation  $y = \frac{1}{4p}(x-h)^2 + k$   
 Vertex:  $(h, k)$   
 Focus:  $(h, k+p)$   
 Directrix:  $y = k-p$   
 Conic  $A=0$  or  $B=0$

## VERTICAL

Equation  $x = \frac{1}{4p}(y-k)^2 + h$   
 Vertex  $(h, k)$   
 Focus:  $(h+p, k)$   
 Directrix:  $x = h-p$

## ELLIPSE



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

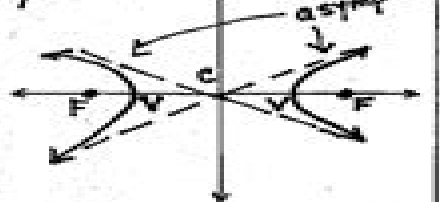
center:  $(h, k)$   
 Foci:  $(h + \sqrt{a^2 - b^2}, k)$   
 $(h - \sqrt{a^2 - b^2}, k)$   
 Major extrema:  $(h+a, k)$   
 $(h-a, k)$   
 minor extrema:  $(h, k+b)$   
 $(h, k-b)$

same, but  $b > a$

Center:  $(h, k)$   
 Foci:  $(h, k + \sqrt{b^2 - a^2})$   
 $(h, k - \sqrt{b^2 - a^2})$   
 Major:  $(h, k+b)$   
 $(h, k-b)$   
 minor:  $(h+a, k)$   
 $(h-a, k)$

$A \neq B$  but  $A > 0$   
 $B > 0$

## HYPERBOLA



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

center:  $(h, k)$   
 Vertices:  $(h+a, k)$   
 $(h-a, k)$   
 Foci:  $(h + \sqrt{a^2 + b^2}, k)$   
 $(h - \sqrt{a^2 + b^2}, k)$   
 Asymptotes:  $y - k = \pm \frac{b}{a}(x - h)$

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

Center:  $(h, k)$   
 Vertices:  $(h, k+b)$   
 $(h, k-b)$   
 Foci:  $(h, k + \sqrt{a^2 + b^2})$   
 $(h, k - \sqrt{a^2 + b^2})$   
 Asymptotes:  $y - k = \pm \frac{a}{b}(x - h)$

# Conics Drawing With Equations

**George Salmon**



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engineering chemistry and other sciences involving the mechanical properties and use of liquids at a very basic level  
hydraulics is the liquid counterpart of pneumatics which concerns gases