

$f(x) = ax^2 + bx + c$   $\left\{ \begin{array}{l} \text{axis of symmetry: } -\frac{b}{2a} \\ \text{y-intercept: } c \\ \text{vertex: } (h, k) \end{array} \right.$

Vertex Form:  $y = (x - h)^2 + k$

$\Sigma$  ex:  $a=1$   
 $y = x^2 + 2x + 6$   $\leftarrow$  ? is half of  $b$  squared  $(\frac{b}{2})^2$   
 $y = (x^2 + 2x + ?) + 6$   
 $y = (x^2 + 2x + 1) + 6 - 1$   
 $y = (x + 1)^2 + 5$

$\Sigma$  ex:  $a > 1$   
 $y = 2x^2 - 12x + 3$   $\leftarrow$   $(\frac{6}{2})^2 = 9$   
 $y = 2(x^2 - 6x + 9) + 3 - 18$   
 $y = 2(x - 3)^2 - 15$

discriminant =  $b^2 - 4ac$   $\left\{ \begin{array}{l} 0 = 1 \text{ solution} \\ \text{positive} = 2 \text{ solutions} \\ \text{negative} = \emptyset \text{ no solution} \end{array} \right.$

**Parabolas**

$(x - h)^2 = 4p(y - k)$   
 $\uparrow p > 0$   $\downarrow p < 0$   
 vertex:  $(h, k)$   
 focus:  $(h, k + p)$   
 axis of symmetry:  $x = h$   
 directrix d:  $y = k - p$

$(y - k)^2 = 4p(x - h)$   
 $\leftarrow p > 0$   $\rightarrow p < 0$   
 vertex:  $(h, k)$   
 focus:  $(h + p, k)$   
 axis of symmetry:  $y = k$   
 directrix d:  $x = h - p$

**hyperbolas**

$\frac{(x - h)^2}{a^2} - \frac{(y - k)^2}{b^2} = 1$   
 center:  $(h, k)$   
 vertices:  $(h \pm a, k)$   
 foci:  $(h \pm c, k)$   
 transverse axis:  $y = k$   
 conjugate axis:  $x = h$   
 asymptotes:  $y - k = \pm \frac{b}{a}(x - h)$

$\frac{(y - k)^2}{a^2} - \frac{(x - h)^2}{b^2} = 1$   
 center:  $(h, k)$   
 vertices:  $(h, k \pm a)$   
 foci:  $(h, k \pm c)$   
 transverse axis:  $x = h$   
 conjugate axis:  $y = k$   
 asymptotes:  $y - k = \pm \frac{a}{b}(x - h)$

a is always the first, not largest

**ellipses**

$\frac{(x - h)^2}{a^2} + \frac{(y - k)^2}{b^2} = 1$   
 center:  $(h, k)$  major axis:  $y = k$   
 foci:  $(h \pm c, k)$  minor axis:  $x = h$   
 vertices:  $(h \pm a, k)$   
 co-vertices:  $(h, k \pm b)$

$\uparrow c^2 = a^2 - b^2$  or  $c = \sqrt{a^2 - b^2}$   $\downarrow$

**ellipses**

$\frac{(x - h)^2}{b^2} + \frac{(y - k)^2}{a^2} = 1$   
 center:  $(h, k)$  major axis:  $x = h$   
 foci:  $(h, k \pm c)$  minor axis:  $y = k$   
 vertices:  $(h, k \pm a)$   
 co-vertices:  $(h \pm b, k)$

the equations above need to equal 1 to be in standard form  
 eccentricity:  $e = \frac{c}{a}$   
 $\leftarrow$  determines how 'circular' or 'stretched' it is  
 $\leftarrow$  always between 0 and 1  
 larger denominator is  $a$   
 $a$  is half the length of the major axis  
 $b$  is half the length of the minor axis

**circles**

$(x - h)^2 + (y - k)^2 = r^2$   
 $r = \text{radius}$  center =  $(h, k)$

classifying conics using discriminant  
 $Ax^2 + Bxy + Cy^2 + Dx + Ey + F = 0$   
 disc:  $B^2 - 4AC < 0$ ;  $B \neq 0, A \neq C$   
 ellipse:  $B^2 - 4AC < 0$ ;  $B \neq 0, A = C$   
 parabola:  $B^2 - 4AC = 0$   
 hyperbola:  $B^2 - 4AC > 0$

# Pre Calc Five Notetaking Guide

**Guillaume Favre**



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