

$$f(x) = ax^2 + bx + c$$

axis of symmetry: $x = -\frac{b}{2a}$
 y-intercept: c
 vertex: (h, k)

$$\text{vertex form: } y = (x - h)^2 + k$$

Σ ex: $a=1$

$$\begin{aligned} y &= x^2 + 2x + 6 & \leftarrow ? \text{ is half of } b \\ y &= (x^2 + 2x + ?) + 6 & \text{ squared } \left(\frac{b}{2}\right)^2 \\ y &= (x^2 + 2x + 1) + 6 - 1 \\ y &= (x + 1)^2 + 5 \end{aligned}$$

Σ ex: $a > 1$

$$\begin{aligned} y &= 2x^2 - 12x + 3 & \leftarrow \frac{(b/2)^2}{a^2} = 9 \\ y &= 2(x^2 - 6x + 9) + 3 - 18 & \leftarrow a \times 2 \\ y &= 2(x - 3)^2 - 15 \end{aligned}$$

discriminant = $b^2 - 4ac$ $\begin{cases} < 0 = 1 \text{ solution} \\ \geq 0 \end{cases}$
 positive = 2 solutions
 negative = 0 no solution

Parabolas

$$(x - h)^2 = 4p(y - k)$$

$\nabla p > 0 \quad \Delta x < 0$

vertex: (h, k)
 focus: $(h, k + p)$
 axis of symmetry: $x = h$
 directrix d: $y = k - p$

$$(y - k)^2 = 4p(x - h)$$

$\nabla p > 0 \quad \Delta x < 0$

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: $y - k = \pm \frac{a}{b}(x - h)$

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axis of symmetry: $x = -\frac{b}{2a}$
 y-intercept: c
 vertex: (h, k)

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

center: (h, k) major axis: $y = k$
 foci: $(h \pm c, k)$ minor axis: $x = h$
 vertices: $(h \pm a, k)$
 co-vertices: $(h, k \pm b)$

$$\nabla c^2 = a^2 - b^2 \text{ or } c = \sqrt{a^2 - b^2}$$

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

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

$$\text{eccentricity: } e = \frac{c}{a}$$

∇ determines how 'circular'

or 'stretched' it is

∇ 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

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

classifying conics using discriminant

$$Ax^2 + Bxy + Cy^2 + Dx + Ey + F = 0$$

circle: $B^2 - 4AC < 0; B \neq 0, A \neq C$

ellipse: $B^2 - 4AC \leq 0; B \neq 0, A \neq C$

parabola: $B^2 - 4AC = 0$

hyperbola: $B^2 - 4AC > 0$

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