

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

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

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

Ex: $a=1$

$$y = x^2 + 2x + 6 \quad \leftarrow ? \text{ is half of } b \text{ squared } \left(\frac{b}{2}\right)^2$$

$$y = (x^2 + 2x + ?) + 6$$

$$y = (x^2 + 2x + 1) + 6 - 1$$

$$y = (x + 1)^2 + 5$$

Ex: $a>1$

$$y = 2x^2 - 12x + 3 \quad \leftarrow \left(\frac{-6}{2}\right)^2 = 9 \quad 9 \times 2$$

$$y = 2(x^2 - 6x + 9) + 3 - 18$$

$$y = 2(x - 3)^2 - 15$$

discriminant = $b^2 - 4ac$ > 0 = 1 solution
positive = 2 solutions negative = 0 no solution

Parabolas

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

$$p > 0 \quad p < 0$$

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

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

$$p > 0 \quad p < 0$$

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 b or c



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

ellipses

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

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



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

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

$\hookrightarrow$ determines how 'circular' or 'stretched' it is

$\hookrightarrow$ 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 = radius center = (h, k)

classifying conics using discriminant

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

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

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

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

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

Algebra Notetaking Guide Chapter 6

George Grätzer



Algebra Notetaking Guide Chapter 6:

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Lecture Notes in Algebraic Topology James F. Davis and Paul Kirk, The amount of algebraic topology a graduate student specializing in topology must learn can be intimidating Moreover by their second year of graduate studies students must make the transition from understanding simple proofs line by line to understanding the overall structure of proofs of difficult theorems To help students make this transition the material in this book is presented in an increasingly sophisticated manner It is intended to bridge the gap between algebraic and geometric topology both by providing the algebraic tools that a geometric topologist needs and by concentrating on those areas of algebraic topology that are geometrically motivated Prerequisites for using this

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High school: a comprehensive manipulative program for algebra I Henri Picciotto, 1990

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