

Algebra Formula Sheet

Slope

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

Parabolas

Standard Form

$$y = ax^2 + bx + c$$

Vertex: $x = \frac{-b}{2a}$

Vertical

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

Vertex: (h, k)

Opens: Up (+p) or Down (-p)

Focus: (h, k + p)

Directrix: $y = k - p$

Axis of Symmetry: $x = h$

Horizontal

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

Vertex: (h, k)

Opens: Right (+p) or Left (-p)

Focus: (h + p, k)

Directrix: $x = h - p$

Axis of Symmetry: $y = k$

Ellipse

Horizontal ($a > b$)

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

Center: (h, k)

Vertices: (h ± a, k)

Covertices: (h, k ± b)

Major Axis Length: 2a

Minor Axis Length: 2b

Foci: (h ± c, k)

$$c^2 = a^2 - b^2$$

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

Vertical ($b > a$)

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

Center: (h, k)

Vertices: (h, k ± a)

Covertices: (h ± b, k)

Major Axis Length: 2a

Minor Axis Length: 2b

Foci: (h, k ± c)

$$c^2 = a^2 - b^2$$

Hyperbolas

Horizontal

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

Center: (h, k)

Opens: Right/ Left

Vertices: (h ± a, k)

Transverse Length: 2a

Conjugate Length: 2b

Foci: (h ± c, k)

$$a^2 + b^2 = c^2$$

Slope: $\pm \frac{b}{a}$

Asymptotes:

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

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

Vertical

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

Center: (h, k)

Opens: Up/ Down

Vertices: (h, k ± a)

Major Length: 2a

Minor Length: 2b

Foci: (h, k ± c)

$$a^2 + b^2 = c^2$$

Slope: $\pm \frac{a}{b}$

Asymptotes:

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

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

Circle

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

center: (h, k)

radius: r

Triangle Inequality

$$|a + b| \leq |a| + |b|$$

Distance Formula

$$D = R + T$$

$$D = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Complex Numbers

$$i = \sqrt{-1}, i^2 = -1, i^3 = -i, i^4 = 1$$

$a + bi$ standard form

$$|a + bi| = \sqrt{a^2 + b^2}$$

Factoring

Difference of Squares

$$a^2 - b^2 = (a - b)(a + b)$$

Sum/ Difference of Squares

$$(a + b)^2 = a^2 + 2ab + b^2$$

$$(a - b)^2 = a^2 - 2ab + b^2$$

Sum/ Difference of Cubes

$$a^3 + b^3 = (a + b)(a^2 - ab + b^2)$$

$$a^3 - b^3 = (a - b)(a^2 + ab + b^2)$$

Midpoint Formula

$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

Lines

Point-Slope Form

$$y - y_1 = m(x - x_1)$$

Slope-Intercept Form

$$y = mx + b$$

Standard Form

$$ax + by = c$$

Quadratic Formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Discriminant:

$b^2 - 4ac > 0$: 2 real solutions

$b^2 - 4ac = 0$: 1 real solution

$b^2 - 4ac < 0$: 2 imaginary/

complex solutions

Statistics

$${}_nC_r = \frac{n!}{r!(n - r)!} \text{ Combination}$$

$${}_nP_r = \frac{n!}{(n - r)!} \text{ Permutations}$$

Binomial Probability Formula

$$P = \binom{n}{k} p^k q^{n-k}$$

Pythagorean Theorem

$$a^2 + b^2 = c^2 \quad \text{Right}$$

$$a^2 + b^2 > c^2 \quad \text{Acute}$$

$$a^2 + b^2 < c^2 \quad \text{Obtuse}$$

Algebra For All

Ying-Ying Zheng



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