

SAT MATH STUDY GUIDE

~ LINE ~

Slope-intercept form: $y = mx + b$

→ $m = \text{slope} = \frac{y_2 - y_1}{x_2 - x_1}$

→ $b = y\text{-intercept}$ (where $x=0$)

→ $x\text{-intercept}$ (where $y=0$)

parallel lines
↳ same slope
perpendicular
↳ opposite & reciprocal

~ PARABOLA ~

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

→ vertex = (h, k)

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

→ vertex = $(-\frac{b}{2a}, f(h))$

→ $x\text{-intercepts}$ = solutions, zeros, roots, and factors

Quadratic Formula: $x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

→ **Discriminant Theory:**

- $b^2 - 4ac < 0$ no real solutions
- $b^2 - 4ac = 0$ 1 real solution
- $b^2 - 4ac > 0$ 2 real solutions

~ EXPONENTIAL ~

Exponential Function: $A(t) = A_0(1+r)^t$

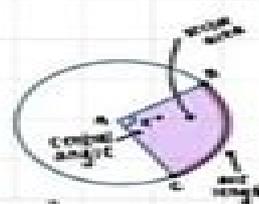
→ $A(t)$ = y -value (think $f(x)$)

→ t = x -value (time)

→ A_0 = starting / initial amount

→ r = rate

- $(1+r)$ = growth / increase
- $(1-r)$ = decay / decrease



~ CIRCLES ~

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

→ center = (h, k) * the center is not a point on the circle

→ radius = $\sqrt{r^2} = r$

→ degrees to radians = π radians = 180°

Arc Length & Sector Area:

→ Arc Length = $\frac{\text{central angle in degrees}}{360^\circ} \cdot 2\pi r$

→ Area = $\frac{\text{central angle in degrees}}{360^\circ} \cdot \pi r^2$

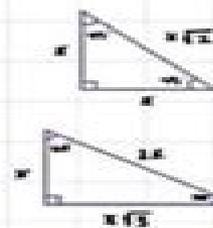
~ Triangles ~

SOH CAH TOA:

→ $\sin(x^\circ) = \frac{\text{opposite}}{\text{hypotenuse}}$

→ $\cos(x^\circ) = \frac{\text{adjacent}}{\text{hypotenuse}}$

→ $\tan(x^\circ) = \frac{\text{opposite}}{\text{adjacent}}$



Pythagorean Theorem:

$a^2 + b^2 = c^2$ (c = hypotenuse)

~ STATISTICS ~

Probability: $\frac{\text{parts}}{\text{total}}$ in probabilities add up to 1 =

Mean: $\frac{\text{sum of items}}{\text{number of items}}$ (average)

Median: middle (order from least to greatest)

Mode: most frequent

Range: maximum - minimum

~ Systems of Equations ~

No solution: parallel lines never intersect

Infinitely many: equations are the same

One solution: one point of intersection



~ Midpoint & Distance ~

Midpoint Formula: $(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2})$

Distance Formula: $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

~ Exponents & Radicals ~

1. $0^0 = 1$
2. $x^0 = 1$
3. $x^1 = x$
4. $x^a \cdot x^b = x^{a+b}$
5. $(x^a)^b = x^{a \cdot b}$
6. $\frac{x^a}{x^b} = x^{a-b}$
7. $\frac{x^a}{x^a} = x^0 = 1$
8. $\frac{1}{x^a} = x^{-a}$
9. $\sqrt{x^2} = x^{\frac{2}{2}} = x^1 = x$
10. $(\sqrt{x^2})^2 = x^{\frac{2}{2} \cdot 2} = x^2 = x^2$
11. $\sqrt{x} \cdot \sqrt{x} = x^{\frac{1}{2} + \frac{1}{2}} = x^1 = x$

~ POLYGONS ~

Trapezoid: $A = \frac{1}{2}(b_1 + b_2)h$

Sum of interior angles: $(n-2)180^\circ$

~ Imaginary / Complex ~

Complex conjugate: $(a-bi)(a+bi) = a^2 + b^2$

$i = \sqrt{-1}$ AND $i^2 = -1$

~ Multiplying Binomials ~

Difference of squares: $x^2 - y^2 = (x-y)(x+y)$

Perfect Square: $(x-y)^2 = (x-y)(x-y) = x^2 - 2xy + y^2$

Decorate A Math Study Guide

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