SAT MATH STUDY GUIDE

~ Line ~

slope-interrupt form: $y = mx + b$

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

→ b = y-intercept (where $x = 0$)

→ x-interrupt (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-interrupts = 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: $A(t) = A_0(1 \pm r)^t$

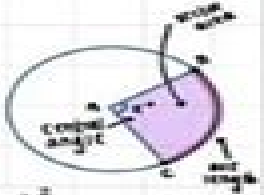
→ $A(t)$ = y-value (think $f(x)$)

→ 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 = $180°$

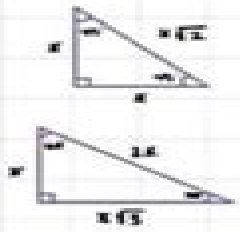
Arc Length & Sector Area:

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

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

~ Triangles ~

SOH CAH TOA:



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

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

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

Pythagorean Theorem:

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

~ Statistics ~

Probability: $\frac{\text{parts}}{\text{total}}$ * probabilities add up to 1 or 100%

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

Median: middle (order from least → greatest)

Mode: most frequent

Range: maximum − minimum

~ Systems of Equations ~

No solution: parallel lines, never intersect

Infinitely many: equations are the same line

One solution: one point of intersection

~ Midpoint & Distance ~

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

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

~ Exponents & Radicals ~

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

~ Polygons ~

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

Sum of interior angles: $(n-2)180°$

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

3 BECK COLLEGE PREP

Math 09study Guide

Mark Steyvers

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