

High School AIMS Reference Sheet

Key		Formulas for Area	
b = base	d = diameter	Circle	$A = \pi r^2$
h = height	r = radius	Parallelogram	$A = bh$
l = length	s = slant height	Rectangle	$A = lw$
w = width	A = area of base	Trapezoid	$A = \frac{1}{2}h(b_1 + b_2)$
	P = perimeter of base	Triangle	$A = \frac{1}{2}bh$
Use 3.14 or $\frac{22}{7}$ for π .			
Name	Volume (V)	Surface Area (SA)	
Pyramid	$V = \frac{1}{3}Ah$	$SA = A + \frac{1}{2}Pl$	
Right Cone	$V = \frac{1}{3}\pi r^2h$	$SA = \frac{1}{2}(2\pi r)l + \pi r^2$ or $SA = \pi r l + \pi r^2$	
Right Cylinder	$V = \pi r^2h$	$SA = 2\pi r^2 + 2\pi rh$	
Right Prism	$V = Ah$	$SA = 2B + Ph$	
Sphere	$V = \frac{4}{3}\pi r^3$	$SA = 4\pi r^2$	
Quadratics		Coordinate Geometry and Linear Equation Forms	
For all quadratics: $ax^2 + bx + c = 0$		Given Points $S(x_1, y_1)$, $T(x_2, y_2)$	
Quadratic Formula: $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$		Distance between two points:	
The x -coordinate for the vertex of a quadratic: $-\frac{b}{2a}$		$ST = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$	
Pythagorean Theorem		Midpoint between two points:	
 $a^2 + b^2 = c^2$		Midpoint = $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$	
Arithmetic Sequences		Slope of line through two points:	
Explicit formula for an arithmetic sequence: $A_n = A_1 + (n-1)d = 1$ d = common difference		$m = \frac{y_2 - y_1}{x_2 - x_1}$	
Interest Formulas:		Point-Slope form: $y - y_1 = m(x - x_1)$	
I = interest earned, P = principal, r = annual interest rate, t = time in years, n = number of times compounded per year, A = total amount after time t		Standard or General form: $Ax + By = C$	
Simple Interest: $I = Prt$ $A = P(1 + rt)$		Slope-Intercept form: $y = mx + b$	
Compound Interest: $A = P\left(1 + \frac{r}{n}\right)^{nt}$			

Aims Reference Sheet

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Mullay, Priscilla Schlicke, Library
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