EffortlessMath

GED Test Mathematics Formula Sheet

Area of a:

Parallelogram $A = bh$

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

Surface Area and Volume of a:

Rectangular/Right Prism	$SA = ph + 2B$	$V = Bh$
Cylinder	$SA = 2\pi rh + 2\pi r^2$	$V = \pi r^2 h$
Pyramid	$SA = \frac{1}{2}ps + B$	$V = \frac{1}{3}Bh$
Cone	$SA = \pi r + \pi r^2$	$V = \frac{1}{3}\pi r^2 h$
Sphere	$SA = 4\pi r^2$	$V = \frac{4}{3}\pi r^3$

(p = perimeter of base B; $\pi = 3.14$)

Algebra

Slope of a line $m = \frac{y_2 - y_1}{x_2 - x_1}$

Slope-intercept form of the equation of a line $y = mx + b$

Point-slope form of the Equation of a line $y - y_1 = m(x - x_1)$

Standard form of a Quadratic equation $y = ax^2 + bx + c$

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

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

Simple interest $I = prt$

(I = interest, p = principal, r = rate, t = time)