

MoGEA MATHEMATICS SUBTEST FORMULAS

Formula	Description
$m = \frac{y_2 - y_1}{x_2 - x_1}$	Slope of a line
$y = mx + b$	Equation of a line
$A = lw$	Area of rectangle
$P = 2l + 2w$	Perimeter of rectangle
$A = \frac{1}{2}bh$	Area of triangle
$c^2 = a^2 + b^2$	Pythagorean theorem
$A = \pi r^2$	Area of circle
$C = 2\pi r$	Circumference of circle
$S.A. = 4\pi r^2$	Surface area of sphere
$V = \frac{4}{3}\pi r^3$	Volume of sphere
$S.A. = 2\pi rh + 2\pi r^2$	Surface area of right cylinder
$V = \pi r^2 h$	Volume of right cylinder
$S.A. = 2lw + 2lh + 2wh$	Surface area of rectangular prism
$V = lwh$	Volume of rectangular prism