



SECTION 6

ASSESSMENT REFERENCE MATERIALS

FORMULAS

Description	Formula
Volume of a right cone and a pyramid	$V = \frac{1}{3}Bh$
Surface area of a sphere	$A = 4\pi r^2$
Volume of a sphere	$V = \frac{4}{3}\pi r^3$
Volume of a cylinder	$V = \pi r^2 h$
Surface area of a cylinder	$A = 2\pi r h + 2\pi r^2$
Distance formula	$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
Midpoint formula	$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$
Slope	$m = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$
Quadratic formula	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
Pythagorean theorem	$a^2 + b^2 = c^2$

