Grade 11 Formula Sheet

You may use the following formulas to solve problems on this test.

Pythagorean Theorem	$a^2 + b^2 = c^2$
Distance formula	$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
Quadratic formula	$x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
Trigonometric Relations	$\sin \theta = \dfrac{\text{opposite}}{\text{hypotenuse}} \qquad \cos \theta = \dfrac{\text{adjacent}}{\text{hypotenuse}}$ $\tan \theta = \dfrac{\text{opposite}}{\text{adjacent}}$
$A = \pi r^2$ $C = \pi d$	A = area C = circumference d = diameter r = radius
$SA = ph + 2B$ $SA = \pi r l + \pi r^2$ $SA = 4\pi r^2$	SA = surface area B = area of base h = height p = perimeter r = radius l = slant height
$V = Bh$ $V = \frac{1}{3} Bh$ $V = \frac{4}{3} \pi r^3$	V = volume B = area of base h = height r = radius