Cambridge IGCSE[™] Mathematics (0580 and 0980)

List of formulas for Extended papers

Area, A , of triangle, base b , height h .	$A = \frac{1}{2}bh$
Area, A, of circle of radius r.	$A = \pi r^2$
Circumference, <i>C</i> , of circle of radius <i>r</i> .	$C = 2\pi r$
Curved surface area, A, of cylinder of radius r, height h.	$A=2\pi rh$
Curved surface area, A, of cone of radius r, sloping edge l.	$A = \pi r l$
Surface area, A, of sphere of radius r.	$A=4\pi r^2$
Volume, <i>V</i> , of prism, cross-sectional area <i>A</i> , length <i>l</i> .	V = Al
Volume, V, of pyramid, base area A, height h.	$V = \frac{1}{3}Ah$
Volume, V , of cylinder of radius r , height h .	$V = \pi r^2 h$
Volume, V , of cone of radius r , height h .	$V = \frac{1}{3}\pi r^2 h$
Volume, V , of sphere of radius r .	$V = \frac{4}{3}\pi r^3$
For the equation $ax^2 + bx + c = 0$, where $a \neq 0$,	$x = \frac{-b \pm \sqrt{b^2}}{2a}$

For the triangle shown,



Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (Cambridge University Press & Assessment) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

Cambridge Assessment International Education is part of Cambridge University Press & Assessment. Cambridge University Press & Assessment is a department of the University of Cambridge.

4ac