List of formulas - Extended (Paper 2 and Paper 4)

This list of formulas will be included on page 2 of Paper 2 and Paper 4.

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, C, of circle of radius r.
$$C = 2\pi r$$

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.
$$A = \pi rl$$

Surface area, A, of sphere of radius r.
$$A = 4\pi r^2$$

Volume,
$$V$$
, of prism, cross-sectional area A , length I . $V = AI$

Volume,
$$V$$
, of pyramid, base area A , height h . $V = \frac{1}{3}Ah$

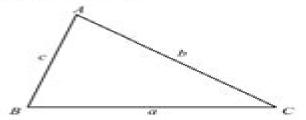
Volume, V, of cylinder of radius r, height h.
$$V = \pi r^2 h$$

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 $a \neq 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

For the triangle shown,



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$a^2 = b^2 + c^2 - 2bc\cos A$$

$$Area = \frac{1}{2}ab \sin C$$

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Karen Morrison, Nick Hamshaw

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