MATHEMATICAL FORMULAE

Note:
Below is the formulae list for Paper 1.
For Paper 2, only the section on *Number and Algebra* will be given.

Number and Algebra

Compound interest

$$\text{Total amount } = P\left(1+\frac{r}{100}\right)^n$$

Quadratic equation $ax^2 + bx + c = 0$

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

Geometry and Measurement

Curved surface area of a cone = πrl

Surface area of a sphere = $4\pi r^2$

Volume of a cone = $\frac{1}{3}\pi r^2 h$

Volume of a pyramid = $\frac{1}{3} \times$ base area $\times$ height

Volume of a sphere = $\frac{4}{3}\pi r^3$