IGCSE Mathematics

Formula Sheet

Cambridge IGCSE 0580 — All formulas provided in the exam

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Area & Perimeter

Area of triangle $\quad A = \dfrac{1}{2}\,bh$

Area of circle $\quad A = \pi r^2$

Circumference $\quad C = 2\pi r$

Surface Area

Cylinder (curved) $\quad A = 2\pi r h$

Cone (curved) $\quad A = \pi r l$

Sphere $\quad A = 4\pi r^2$

Volume

Prism $\quad V = A_{\text{base}} \times l$

Pyramid $\quad V = \dfrac{1}{3}\,A_{\text{base}}\,h$

Cylinder $\quad V = \pi r^2 h$

Cone $\quad V = \dfrac{1}{3}\,\pi r^2 h$

Sphere $\quad V = \dfrac{4}{3}\,\pi r^3$

Algebra

Quadratic formula $\quad x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Trigonometry

Sine rule $\quad \dfrac{a}{\sin A} = \dfrac{b}{\sin B} = \dfrac{c}{\sin C}$

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

Area of triangle $\quad A = \dfrac{1}{2}\,ab\sin C$

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