

# IGCSE Mathematics

## Formula Sheet

Cambridge IGCSE 0580 — All formulas provided in the exam [pietromeloni.com](http://pietromeloni.com)

### Area & Perimeter

Area of triangle  $A = \frac{1}{2}bh$

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

Circumference  $C = 2\pi r$

### Surface Area

Cylinder (curved)  $A = 2\pi rh$

Cone (curved)  $A = \pi rl$

Sphere  $A = 4\pi r^2$

### Volume

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

Pyramid  $V = \frac{1}{3} A_{\text{base}} h$

Cylinder  $V = \pi r^2 h$

Cone  $V = \frac{1}{3} \pi r^2 h$

Sphere  $V = \frac{4}{3} \pi r^3$

### Algebra

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

### Trigonometry

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

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

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

Need help preparing for your IGCSE exam?

Get personalised tutoring from Pietro Meloni, PhD. Book a free consultation at [pietromeloni.com](http://pietromeloni.com)