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Engineering Maths 2 Formula
 $c^2 = a^2 + b^2$ - $2ab \cos C$ h b a c A B C Perimeter = $2a + 2b$ Ellipse Area = ab $2b \ n =$ number of sides f s Rectangle Circle Parallelogram Area = bh h b h Pyramid A = area of base Solid Geometry Sphere Volume = $\frac{4}{3} \pi r^3$ Surface Area = $4 \pi r^2$ r h w d Rectangular Prism Volume = wdh Surface Area = $2(wd + wh + dh)$ h r Cylinder Volume = $\pi r^2 h$

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 A.P. $S_n = a + (a + d) + (a + 2d) + \dots + (a + (n - 1)d) = \frac{n}{2} [2a + (n - 1)d]$ G.P. $S_n = a + ar + ar^2 + \dots + ar^{n-1} = a \frac{1 - r^n}{1 - r}$, $S_1 = a$ 1 r for $|r| < 1$ (These results also hold for complex series.) Convergence of series: the ratio test $S_n = u_1 + u_2 + u_3 + \dots + u_n$ converges as $n \rightarrow \infty$ if $\lim_{n \rightarrow \infty} \frac{u_{n+1}}{u_n} < 1$ Convergence of series: the comparison test

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