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Engineering Mathematics Formulas & Shortcut Handbook ...

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$\sec x \tan x \cot x \csc x \sinh x \cosh x \sec^2 x - \operatorname{cosec}^2 x \sec x \tan x - \operatorname{cosec} x \cot x \cosh x \sinh x$ . If  $y = uv$ , then  $dy = u dv + v du$ . If  $y = f(v)$  where  $v = v(x)$ , then  $\frac{dy}{dx} = f'(v) \frac{dv}{dx}$ .

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Engineering Mathematics Formulas

Engineering Mathematics (formula sheet 1)

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PLTW, Inc. Engineering Formulas  $T = \frac{W}{F} = \text{Efficiency}$   $d = \frac{E}{P} = \text{Energy}$   $W = F \cdot d = \text{work}$   $F = \frac{W}{d} = \text{force}$   $d = \frac{W}{F} = \text{distance}$  Fluid Mechanics 1  $T = \frac{P}{\rho \cdot L} = \text{Power}$  (Guy-L' L P 1 V 1 = P 2 V 2 B y ' L Q = Av A 1 v 1 = A 2 v 2 + V absolute pressure = gauge pressure + atmospheric pressure P = absolute pressure Force A = Area V = volume T T = absolute temperature Q = flow rate

## Engineering Formula Sheet

8.2 Worked problems on transposition of formulae 54 8.3 Further worked problems on transposition of formulae 55 8.4 Harder worked problems on transposition of formulae 57 Assignment 4 59 9. Simultaneous equations 60 ... (ii) the mandatory 'Mathematics for Engineering' at Advanced level (i.e. GNVQ 3) ...

## Basic Engineering Mathematics - index-of.co.uk

Formula of Circle. Area of Circle =  $(\pi r^2)$  Perimeter of Circle =  $(2\pi r)$  Where,  $r$  = Radius,  $d$  = Diameter,  $d = 2r$ .  
Formula of Scalene Triangle. Area of Scalene Triangle =  $(\frac{1}{2} \sqrt{s(s-a)(s-b)(s-c)})$  Perimeter of Scalene Triangle =  $(a+b+c)$   
Where,  $a, b, c$  are Side of Scalene Triangle  
Formula of Isosceles Triangle

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This last result is a special case of the more general formula,  $N \sum_{l=0}^{N-1} n(n+1)(n+2) \dots (n+r) = N(n+1)(n+2) \dots (N+r)(N+r+1)$   
 $r+2$ . Plane wave expansion  $\exp(ikz) = \exp(ikr \cos \theta) = \sum_{l=0}^{\infty} (2l+1) i^l j_l(kr) P_l(\cos \theta)$ , where  $P_l(\cos \theta)$  are Legendre polynomials (see section 11) and  $j_l(kr)$  are spherical Bessel functions, denoted by  $j_l(x) = \sqrt{\frac{2}{\pi x}} J_{l+1/2}(x)$

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## Engineering Mathematics Handbook Definitions Theorems ...

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