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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) ...

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

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This last result is a special case of the more general formula, $N^? 1 n(n+1)(n+2) . . (n+r) = N(+1)(+2) . . (N+r)(N+r+1) r +2$. Plane wave expansion $\exp(ikz) = \exp(ikr \cos) = 1 ? 1=0 (2l+1)j_l j_l(kr)P_l(\cos)$, where $P_l(\cos)$ are Legendre polynomials (see section 11) and $j_l(kr)$ are spherical Bessel functions, dened by $j_l(\zeta) = r^? 2^? J_{l+1/2}$

Mathematical Formula Handbook - ??????

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