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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, $r =$ Radius, $d =$ Diameter, $d = 2r$. Formula of Scalene Triangle. Area of Scalene Triangle = $(\frac{1}{2}(s-a)(s-b)(s-c))$ 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, $N \cdot 1 \cdot n(n+1)(n+2) \dots (n+r) = N(n+1)(n+2) \dots (N+r)(N+r+1) \dots r+2$. 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 $j_l(\theta) = r^{-1/2} J_{l+1/2}$

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