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### Engineering Formula Sheet

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  $\exp(ikz) = \sum_{l=0}^{\infty} (2l+1) i^l j_l(kr) P_l(\cos \theta)$ , where  $P_l(\cos \theta)$  are Legendre polynomials (see section 11) and  $j_l(kr)$  are spherical Bessel functions, defined by  $j_l(r) = r^{-l} \frac{d^l}{dr^l} (r^l J_{l+1/2}(r))$

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