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Engineering Formula Sheet

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

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