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$$\rho_1 v_1^2 + P_1 = \rho_2 v_2^2 + P_2 + \rho g h$$

absolute pressure = gauge pressure + atmospheric pressure

$P =$  absolute pressure

Force  $A =$  Area  $V =$  volume  $T =$  absolute

temperature  $Q =$  flow rate

## Engineering Formula Sheet

This last result is a special case of the more

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general formula,  $N \dots 1 n(n+1)(n+2) \dots (n+r) = N(N+1)(N+2) \dots (N+r)(N+r+1) r+2$ .

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, defined by  $j_l(\hat{r}) = r^{-1/2} J_{l+1/2}(r)$

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Bessel functions, defined by  $j_l(\hat{r}) = r^{-1/2} J_{l+1/2}(r)$

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