

FORMULA 3.431.2

$$\int_0^{\infty} \left[\frac{1}{x} - \frac{(x+2)(1-e^{-x})}{2x^2} \right] e^{-px} dx = -1 + \left(p + \frac{1}{2} \right) \ln \left(1 + \frac{p}{2} \right)$$