

FORMULA 3.354.3

$$\int_0^{\infty} \frac{e^{-\mu x} dx}{\beta^2 - x^2} = \frac{1}{2\beta} [e^{-\beta\mu} \text{Ei}(\beta\mu) - e^{\beta\mu} \text{Ei}(-\beta\mu)] \quad |\arg(\pm\beta)| < \pi, \text{Re } \mu > 0$$