

FORMULA 3.354.2

$$\int_0^{\infty} \frac{x e^{-\mu x} dx}{\beta^2 + x^2} = -\text{ci}(\beta\mu) \cos \beta\mu - \text{si}(\beta\mu) \sin \beta\mu \quad \text{Re } \beta > 0, \text{Re } \mu > 0$$