

**FORMULA 3.351.2**

$$\int_a^\infty x^n e^{-\mu x} dx = \frac{\Gamma(n+1, a\mu)}{\mu^{n+1}} = e^{-a\mu} \sum_{k=0}^{\infty} \frac{n!}{k!} \frac{a^k}{\mu^{n-k+1}}$$