

FORMULA 3.351.1

$$\int_0^a x^n e^{-\mu x} dx = \frac{n!}{\mu^{n+1}} - e^{-a\mu} \sum_{k=0}^n \frac{n!}{k!} \frac{a^k}{\mu^{n-k+1}} = \frac{\gamma(n+1, a\mu)}{\mu^{n+1}}$$