

FORMULA 3.351.4

$$\int_u^\infty \frac{e^{-px}}{x^{n+1}} = \frac{(-1)^{n+1} p^n \text{Ei}(-pu)}{n!} + \frac{e^{-up}}{u^n} \sum_{k=0}^{n-1} \frac{(-1)^k (up)^k (n-k-1)!}{n!}$$