



Integrate[x^2*Exp[-2*x],{x,0,Infinity}]



Definite integral:

[More digits](#)

[Step-by-step solution](#)

$$\int_0^{\infty} x^2 \exp(-2x) dx = \frac{1}{4} \approx 0.25000$$

Indefinite integral:

[Approximate form](#)

[Step-by-step solution](#)

$$\int x^2 \exp(-2x) dx = -\frac{1}{4} e^{-2x} (2x^2 + 2x + 1) + \text{constant}$$