

$$\Gamma(x) = \int_0^{\infty} e^{-t} t^{x-1} dt$$

$$\Gamma(x) = (x-1) \Gamma$$

$$\text{Para } x=4$$

$$\Gamma(4) = \int_0^{\infty} e^{-t} t^3 dt = (4-1) \Gamma = 3 \Gamma$$

$$= 3 \times 2 \times 1 = 6.$$

