$$\Rightarrow \int_0^\infty e^{-\alpha x} x^{n-1} dx = \int_0^\infty \int_0^\infty dx$$

$$adn = dt$$

$$\int_{0}^{M} e^{-t} \left(\frac{t}{\alpha}\right)^{n-1} \frac{dt}{\alpha}$$

$$\Rightarrow \frac{1}{\alpha^n} \int_0^\infty e^{-t} t^{n-1} dt = \frac{f_n}{\alpha^n}$$

$$\Rightarrow$$
 $(n-1)$ = $1 \times 2 - -(n-1)$

$$= \sqrt{112} = \sqrt{11}$$

$$= (n-2)!! \rightarrow 00^{uble}$$

$$= (n-2)!! \rightarrow 00^{uble}$$

$$=) \frac{(n-2)!!}{(n-1)/2}$$