

$$\frac{\lambda^\alpha}{\Gamma(\alpha)} x^{\alpha-1} e^{-\lambda x}$$

$$\alpha = \frac{\nu}{2} \quad \lambda = \frac{1}{2}$$

$$\frac{\left(\frac{1}{2}\right)^{\nu/2}}{\Gamma\left(\frac{\nu}{2}\right)} x^{\nu/2-1} e^{-x/2}$$

$$\mu_k = E\{(X-\mu)^k\} \quad \text{central}$$

$$\mu = E(X)$$

$$\alpha_k = E(X^k) \quad \text{ordinary}$$