=>
$$c \int \frac{(x-y)^{\frac{q+1}{2}}}{a+1} \Big|_{0}^{y} dy = \frac{c}{(a+1)^{\frac{q+2}{2}}} \Big|_{0}^{1} = 1$$

$$= \frac{C}{(\alpha+1)(\alpha+2)} = 1 = C = \frac{(\alpha+1)(\alpha+2)}{(-1)^{\alpha+2}}$$

-)
$$f_{xiy}(xiy) = \frac{f(xiy)}{f_{y(y)}} = f_{y(y)} = \int f(xiy) dx$$

$$\Rightarrow f_{x|y}(n|y) : \begin{cases} -(\alpha+1) \cdot \frac{(n-y)^{\alpha}}{(-y)^{\alpha+1}}; & \text{old} \\ & \text{other} \end{cases}$$

e)
$$\lim_{n \to \infty} f(\alpha, n) = \frac{d^2}{dadb} f(\alpha, n) = \int_{-\infty}^{\infty} 0.5$$

$$= \int_{-\infty}^{\infty} ab \int_{-\infty}^{b+ab}$$

=>
$$P(B|A) = \frac{P(A \cap B)}{P(A)} = \frac{50}{32}$$

الف)
$$P(A \cap B) = P(A') \times P(B') = \frac{50}{32} \times \frac{32}{50} = 1$$

$$1-\alpha = 0.99 \implies \alpha = 0.01 \implies \frac{\alpha}{2} = 0.005 \implies 1$$

$$62.52 - 3.250 \left(\frac{0.11}{\sqrt{15}}\right), \quad 6.52 + 3.25 \left(\frac{0.11}{\sqrt{15}}\right)$$

$$(x-t(n-1,1-\frac{\alpha}{2})\frac{S}{\sqrt{n}}, x+t(n-1,1-\frac{\alpha}{2})\frac{S}{\sqrt{n}})$$

$$(6.52-2.262(\frac{0.11}{\sqrt{10}}), 6.52+2.62(\frac{0.11}{\sqrt{10}}))$$

$$\Rightarrow (6.44,6.59)$$