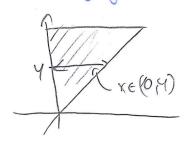
$$\begin{cases} 1 & \text{grayes} \\ \text{Fig.} \\ \text{Fig.$$

b)
$$F_{xy}(xy) = \int_{-\infty}^{4} \int_{-\infty}^{x} f(s,t) dt ds = \int_{-\infty}^{4} \int_{-\infty}^{x} \int_{-\infty}^{x}$$



2)
$$\int_{X}^{2} e^{-\lambda x} \int_{Y}^{2} e^{-\lambda y} \int_{Y}^{2} (x) = 1 - e^{-\lambda x} \int_{Y}^{2} (y) = 1 - e^{-\lambda y}$$

$$= P(\chi \leq t) = P(\max \{\chi_{1}Y\} \leq t)$$

$$= P(\chi \leq t) P(\chi \leq t) P(\chi \leq t) = \frac{1}{2} (1 - e^{-\lambda x})^{2} = \frac{1}{2} = 0$$

$$= (1 - e^{-\lambda x})^{2} = 20$$

$$= (1 - e^{-\lambda x})$$

$$= \chi^{2} \begin{cases} w \times 1 & w \\ e \times 2 & w \\ e \times 4 & w \\ e \times 4$$

$$= 1 - e^{-\lambda w} = -2 \times w \left(e^{-\lambda w} \right) = 1 - 2e^{-\lambda w} = (1 - e^{-\lambda w})^{2}$$

3.)
$$X_i$$
 - where key stokent potrosi no itom prhyp. $X_i \sim X$

$$EX = \int_0^\infty 6x^2(1-x) dx = 6\left(\frac{x^3}{3} - \frac{x^4}{4}\right)^2 = 6\left(\frac{1}{3} - \frac{1}{4}\right) = \frac{6}{12} = \frac{1}{2}$$

$$EX^{2} = \frac{1}{6}X^{3}(1-x)dx = 6\left(\frac{X^{4}}{4} - \frac{X^{5}}{5}\right)^{\frac{1}{2}} = 6\frac{1}{20} = \frac{6}{20}$$

$$Vor(X) = EX^{2} - (EX)^{2} = \frac{6}{20} - \frac{1}{4} = \frac{1}{20}$$

N = 116

alopo where:
$$T = X_1 + ... + X_n$$
, $ET = n \cdot EX = \frac{n}{2}$.

 $VarT = n \cdot VarX = \frac{n}{20}$

(a)
$$P(T > 60) = P(\frac{T - \frac{N}{2}}{\sqrt{\frac{n}{20}}} > \frac{60 - \frac{116}{20}}{\sqrt{\frac{116}{20}}}) = \frac{1}{2}(1 - \overline{p}^*(0,830))$$

$$= 0.21186.$$

b)
$$P(T = 60) = 0.38$$
.
$$\frac{1}{2}(1+\overline{\Phi}^{*}(u)) = 0.38, \quad q = \frac{60-\frac{N}{2}}{\overline{\Omega}^{*}}$$

$$60 - \frac{11}{2} = \frac{1}{20} \cdot 2.05$$
 $\frac{3600 - 600 + \frac{11}{4}}{20} = \frac{1}{20} \cdot (2.05)^{2}$

$$\frac{N^2}{4} - \left(60 + \frac{205}{20}\right) N + 3600 = 0$$
 $N = 110$

4)
$$f(x|\alpha, \theta) = \theta \alpha \times \theta^{-1}, \quad x \ge \alpha, \quad x \ge 1$$

$$\theta = \frac{\pi}{1} f(x; |\alpha, \theta)$$

$$\ln L(\theta) = \frac{\pi}{1} f(x; |\alpha, \theta)$$

$$\lim_{n \to \infty} \int_{x \to 1}^{\infty} \ln \left(\frac{\theta}{1} (x; |\alpha, \theta) \right) dx$$

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$$\lim_{n \to \infty} \int_{x \to 1}^{\infty} \ln L(\theta) dx dx$$

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$$\lim_$$