Paypagan A.T. 63K178 (63K179)

Baganne 1

$$B_{1}=20 \qquad \lambda=1$$

$$B_{2}=1$$

$$W = 30$$

$$X = 51$$

$$G^{2}=20$$

1)
$$\frac{51-\mu}{\sqrt{\frac{20}{30}}} \sim t(n-1) + 0.95 = 2.04$$

2)
$$\frac{20.29}{6^2} \sim 2^2 (h-1)$$
 $\chi^2_{0,1} = 19, 76$

$$\frac{20.29}{6^2} > 19,76$$

3aganue 2

$$\hat{p}_{n} = \frac{1}{21} ; \hat{p}_{m} = \frac{1}{2}$$

· Tunonieza o pabenombe godes

$$T = \frac{(\frac{1}{21} - \frac{1}{2}) - (\rho_n - \rho_m)}{\sqrt{\frac{\rho_n^2 (1 - \rho_n)}{n} + \frac{\rho_m^2 (1 - \rho_m)}{m}}} \sim N(0;1)$$

$$T = \frac{-19/42}{0.055} = 8,225$$

· Z xpur grun gleyeuropoureur un. (30,05) = 1,65

T.K. 18,225/ >/ 1,65/ No ombeprosences a upedobenness He passes

T. K. 6,225 orent Soutemor rucho modurence quarenul ques p-value oneigniculique => moneno processoro, 250 p-value curpeneuros x myero.

30 ganne 3

$$n_{A} = 30$$
 $\overline{X}_{A} = 45$ $\overline{0}_{A} = 5$
 $n_{B} = 11$ $\overline{X}_{B} = 50$ $\overline{0}_{B} = 6$

Ho:
$$M_A = M_B$$
 $X = M_B$
 $X =$

$$T = \frac{-5}{\sqrt{\frac{25}{30} + \frac{36}{11}}} = -2.468$$

$$+ \sqrt{(39)_{9,9}} = -1,68$$
(with)

=> принишется имонеда Из о шом, го о у выпускнико в есть прешизичество.

Baganere 4

$$f(x) = \frac{1}{6} \cdot 7c^{-3+1}$$

$$L = \prod_{i=1}^{6} \int_{0}^{6} x_{i}^{-5+1} dx_{i}$$

$$ln(L) = n \cdot ln(\frac{1}{6}) + (-1 + \frac{1}{6}) ln(\frac{1}{1-1} x_{i})$$

$$l_{\alpha}^{6} = n \cdot o \cdot (-\frac{1}{6^{2}}) - ln(\frac{1}{1-1} x_{i}) \cdot (\frac{1}{6^{2}}) = 0$$

$$-n_{\alpha} - ln(n_{x_{i}}) \cdot (\frac{1}{6^{2}}) = 0$$

$$-n_{\alpha} - ln(\Pi_{x_{i}}) = 0 \quad \bigoplus_{n=1}^{6} ln(\Pi_{x_{i}})$$

becomerejennas: E (g) = 0

$$E\left(-\frac{\ln \pi x_{i}}{n}\right) = -\frac{1}{n} E\left(\ln (\pi x_{i})\right) = -E\left(\ln (x_{i})\right)$$

$$\delta(x) = \frac{1}{6} \cdot x^{-1 + 1/6} = 3$$

$$= 7E\left(\ln (x_{i})\right) = \int_{0}^{1} \ln (x) \cdot \int_{0}^{1} -x^{-1 + 1/6} = 3$$

$$= \int_{0}^{1} \cdot \left(-\frac{1}{(-1 + 1/6 + 1)^{2}}\right) = -\delta = 3$$

$$\Rightarrow E\left(\delta\right) = \theta = 3$$
Observed recuesively.

Jacober :

$$E(\delta^2) = \theta^2$$
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noke upalgenoposus.