1º viecu carnactoción ca paciógenon

U gone weconverse to: F=Fo is thi: F\$+Fo ign years
F He mayor diven are. Hup.

Ugeja: 1. Togenuno gomen odeneskja y k guajyhturkus kottetoguja Bn..., Bk Cryti obux uno ztux bjæghoctur koje odenskje noske yzeni ako zavata una patroseny Fo (tij. ako boski to)

- 2. The Spojano komko je waraka us yzopka zimo z j- wy kawe opijy u waj spoj oznaruno ca m;
- 3. Ano je Ho tranta co. Ben Mj. κογα θρεςτιαβρες
 δροί Xi-ele κοίν νη γενι βρεςτιατί να j-τιν κατινείο
 M;=ŽIν, ρυμε νικα Βίν (n, ρ) p;= P{X ∈ B; | Ho tranta }

 Jαπο teno τος πατιροτίν κονικο α chaκο m; ρασνινμέν og np; νιπο je σγεκιθακε og Mj. ακο βασκυ Ho

 In,..., In y

 Aκο je Ho τιαντις m; je δινικο € M; = np;

 Hενουςτι!

Сада смо на корак од формирана тест статистия. Поменимо трво зедну террему:

T) Tupcorde weopona

Hera je $p_j = P\{X \in B_j\}$ $j \in \{1, ..., k\}$ upu yeny $B; \cap B_j = \emptyset$ so $i \neq j$ $\sum_{j=1}^k p_j = 1$

Hera je (X1,..., Xn) MY ige X; & X, n Benuko

Herc je Mj dp. Ki-els regivy y zem bjegtocu w Bj. Maga Mj~Bin(n, pj), EMj=npj u:

$$\frac{\sum_{j=1}^{k} \frac{\left(M_{j} - nP_{j}\right)^{2}}{hP_{j}} \sim \gamma^{2}_{k-1}$$

Danne, 39 Theciengense

Ho: F=Fo is 1/1: F = Fo

raze je odum yzopra be mu no zero nojevanim wear anaw.

$$T = \sum_{j=1}^{k} \frac{\left(M_{j} - nP_{j}\right)^{2}}{hP_{j}} T \sim \chi^{2}_{k-n}$$

Tge cy Mj v pj gedurucow y короку 3. (4)

y vouron H1 vgy bete bjoegrocure (Nj-npj), vo v bete bjoegrocur T, vo je vputuurre odnocur:

W={T>c}

- Katurtioperje Moskerno Sepater Upaus Borotto c teur uno ce cobeti y je ga j-try katurioperje ciojerno ca vekon gostiom ano je np; 25

- And Fo zabacu of vérostations informenage, odivtot ux destuno newogom makanante laposocingitoria. Oyere tuux informeinopa una periodus sa paryttense went cutain. T, koja je casa tuak sa sa:

T~ T2 K-1- Sp. ozenseva vojanewopa

* Huje weo pujeru ucupalto, anu a pegu y uparcu

Bugunoge $P\{X=k\}=2^{k}=\frac{1}{2^{k+1}}\cdot\frac{1}{2^{k}}$ (LEW) ogribance so-Kotty reamempujeke pacingene ca ingamempon $\frac{1}{2}$ Paune iompleho je ga inecimpono cregete xuinoinese: Ho: E=Fo is $H_1: E+Fo$

Tge je Fo D-ja G(½) pacitiquene. (y obor ragativey than Fo the where the boguno camo works Trace the utta)

Duguno ga le jeguruya y zopry vojabuna 45 vywa gogira 30 vywa wpojna 15 vywa u rewbazna 10 vywa.

Obo wadenc Han Mosse vocnystaniu ga oggesuno kawei oprije y koje teno posbocinativ warke uz yzdoka.

Tipupoquo de dero ga za kameiopije yzneno chyTobe {13 {2} {2} u {4} ane kao mão cho joekne
ytuja chux kametopija nopa tokpute upo ganer
odenextja x ano oto zaveta una G(2) paciosery.
Kano cn. Berneruta uz G(2) paciosere yzna Bjeg.
Hocur uz cuyta N mosterno tosery ta namitopije
usbymute ta cregetu tarut:

B1 = {1}, B1 = {1}, B3 = {3}, B4 = {4,5,..}

(Huje Tpeluke Tucation B; kao untareglare y solupsi, an oboje maro Toupognije..)

- Danne Hawe kaweropije-Bj u Spojebu warance, uz ysopka koje vy ce Hawne y Kuna-mj. vy:

Je ga uspary Hano pr, pr, pr v Pr.

$$P_1 = P\{ X \in B_1 | Ho \overline{wanks} \} = P\{X = 1 | X \sim G(\frac{1}{2})\} = \frac{1}{2!}$$

CMYHO,
$$p_2 = \frac{1}{2^2}$$
, $p_3 = \frac{1}{2^3}$.

$$ρ_1$$
 ποσκεμο godunu καν $1 - \frac{1}{2} - \frac{1}{2^2} - \frac{1}{2^3} = 1 - \frac{7}{8}$

Mpelano du ga ce plepuno ga ru je zauciuc, np; 7,5 (ano vuje, cirojitemo vene naivē opije):

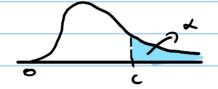
UsparyHojno caga wear civais:

$$\frac{\left(45-56\right)^{2}+\left(30-25\right)^{2}+\left(15-12,5\right)^{2}+\left(10-12,5\right)^{2}}{50}+\frac{\left(10-12,5\right)^{2}}{12,5}$$

$$= 2.5$$

Ogoeguno caga kontingry odnació. Penni ano ga je ore odnuka W={T>c}.

cje w.g. P{Trc | Ho warte)= a kako voju Ho Tr Y2k-1 = 724-1, 34 c baste.



$$F_{\tau_3^{i}}(c) = 1 - \lambda$$

$$\Rightarrow c = F_{\tau_3^{i}}^{1}(1 - \lambda)$$

52.) Ako ca X 0340 40200 odeneskije koje upescerabac ozur juarse upet ruka ocolone v ca. F ostanimo Ljy pa wozere odeneskija, vojupecto je we cirupaini:

Ho: F = Fo vs Hn: F + Fo Tge je Fo Q-ja N(m, 52) paviogene

Bugunogy obon regative to rebut of ktortains trapamentapa to je troupertie go ux oglitimo. Perm en ga temo nevornaine tropamentel ogenibative metrogan mane. Bepogatioj How in y tropamente orene:

 $m_{mnv} = \overline{X}_n \quad u \quad \hat{\sigma}_{mnv}^2 = \overline{S}_n^2$

Met juun oble citaturucinus ye Maxemo uspany-Hatur Ha ocholey vojaturus kuje umano, va temo kopucivutur mogud ukobahe ozene X,* 4 5,2 koje ce godijojy kao yzopanka ejeguna u ysopanka guciyazuja ysopka carlusene og gelsuna gairus upingbana

| (2.5, 2.5, ..., 2.5, 7.5, ..., 25, ..., 22.5, ..., 22.5)

 $= \frac{15 \cdot 2.5 + 75 \cdot 7.5 + ... + 20 \cdot 22.5}{15 + 75 + ... + 20} = 12,2$

3n = 25,4

Havoneruno ga starab vocurtar Hera Herarbo weoprijaro ovipologare karpininamo Ta jep je jeghoanobar u

zamo umo Herario mato gay Tux ovigajo. (3a pagoshare roje zaruna Haroshere MMB azera Ha ochoby spoja warara y univerbaruna: bugeiru EM antopuman)

Coga koga unano oyere Tupanetrapa m v 5º mosterno 4acivabuín sagatiere. Cregelu kopour je oggoetubare kaiveropuja.

buno δι τημορομο 29 καινετοριής γετιν gains upinepla.

Ne og πίγτανος απι τημιτιχορμο τηροχιγκιτιν (0,5) HG (-10,5)

ν (20,25) HG (20,+10) κακο δι απο τοπρικι γεο IR μπο

je ganey N(m, 02) pariogene.

Courapojuo pogu jeguocival Hocury wodeny ca Bj. i mj.:

Maga Fo zabucu og veireztatura vegamentaga be noxe.
no ga oggeguno pj. Elo u zantuo:

P1= P{ X ∈ B, 1 to works 3= P{ X ≥ 51 X~ N(m, 0')

Courte, pr. ps, pr. ups te zabución og mus. Laure, caga mayono ogenera p; ca p; kopuciónto godinjene ogene mon o timo.

Illako godujano ga je:

$$\hat{P}_{1} = \phi\left(\frac{5 - \hat{m}_{mav}}{\hat{\sigma}_{mav}}\right) = 0.98$$

$$\hat{P}_{2} = \phi\left(\frac{10 - \hat{m}_{mnv}}{\hat{\sigma}_{mav}}\right) - \phi\left(\frac{5 - \hat{m}_{uuv}}{\hat{\sigma}_{mav}}\right) = 0.25$$

Mosero uplespuis ge je nij vs , je {1,..., 5} u ga Hoje vouseelso pyrovauv kaiveropije Oyere \hat{p}_j teno \cos uccoputation 39 paryere trace trace $T = \sum_{j=1}^{2} \frac{\left(M_j - n\hat{p}_j\right)^2}{h\hat{p}_j}$ Koja \cos Upu Ho una $\frac{1}{h\hat{p}_j}$ $\frac{1}{h\hat{p}$

34 ano go je n=m,+...+M5=260 tog 34 ano che go, ogpeguno pearus of any bjæguno og T:

$$\frac{\left(15-266.0,07\right)^{2}}{260.0,07}+...+\frac{\left(20-260.0,06\right)^{2}}{260.0,06}=6,017$$

Kputurne adraction je W={T>,c} Tge je ctis.g.

P(T7,C) Ho warted=d wj P(T7,C)T~ x23=d

$$=) F_{\chi_{2}^{1}}(c) = 1-d \implies C = F_{\chi_{2}^{1}}^{-1}(1-d)$$

y N-y: c= 2chisz(1-0,05 z) c=5,991 Hawe &