15 Rpumepii X-ubaggam Tripcora Hexaci & EF i repetiperoned cinomezu H1: F=F1 Mony H2: F +F1. Bagara no rerat & no Syrti alerenno mumoro khymepiro pilne 1-8. Tipungenumo, uso & EFI, posiórno obramo monumbux mareno & rea geny vinculente Mominició enine repenuma-P1 (E1 E D1 U ... UDK)=1, ge Di leasome burnes Di= [ai, bi), i= 1,..., K Hereast $\partial_i - \text{Rinkment envenigement, enimompa-}$ Methy $\delta \Delta_i$, $i=1,..., \kappa_1$, $\partial_1 + ... + \partial_K = n$. Troguerusio manory Pi=P1(\x=\EDi)=F1(\bi)-F1(\ai) =1, ..., K. Is zamony beneuna ruces from kar, não $\frac{v_i}{n} \rightarrow p_i, n \rightarrow \infty,$ 3a nomino i, en ujo npetienting cinomeza Hs.
3a nipy danze koemi aprupunoemen 1 2/2, Dic} ma { Ps, ..., Pu} nponoryond guennoegbanna benunny $Y_{n} = n \sum_{i=1}^{K} \frac{1}{p_{i}} \left(\frac{v_{i}}{n} - p_{i} \right)^{2} = \sum_{i=1}^{K} \frac{\left(v_{i} - n p_{i}\right)^{2}}{n p_{i}}$ Theopena Tripeoka Innyo OZPiZI za beix i=1,..., k mo gud byst-emoto y>0 P1 (Ynzy) -> Vk-1(y),

Dobezenns mé i merpenn goum emapre?
mony my don he naboquer.

Thuenigneses go novejsoby upumes! 20.

Buauspacio rueno q mane, uso 22, (9)=1-E. Theyo apabusha vinoreza Hs, mo 3 is not pricomo, Emybroso go 1-E, znerenny bynapustor benurany In Max ogner enercine q. Tany un bigungarmo rinomezy, everyo Yn zq, i npulleruo i'i of nponuary Houy bynagny. Ye zperume, upo mu npursue mo Hz en gi granemmen, upo mormenirare mes. Vi principa elemente esat menerir barnes;

K={(\xi_1,...,\xi_n): \xi_n \geq 9\xi.

Dis unotimoeni noscurun nepieros popy learero

 $=1-\chi_{\kappa-1}(q)=\varepsilon$

3 ayba menns. Harmmenns Pr (In <9) ~ xx, (9) gormantito zagritine gre nparmumoro zaemoy-Carene, en ujo n pi 2 10 gne Beixe i. B nponumenutrolly bungary on's OFE grance gla cyciquix itisglan, 6 ogun.

Tipunycrumo, uso $\xi \in F_{\theta}$, $\theta \in \mathbb{R}$ - tiebijounuf nepamemp. Basara no κοιατ y nepebipy ατημοί νίνομεζη $H_1: \theta = \theta_1$ προπιμ $H_2: \theta \neq \theta_1$,

Anyo conge go bipueli chmiplax gre to prosis 1-2 (mornini o so acumino mermici), mo za coro So noverso monuto nosyfybanci kpumepici ggrognicens (manon mornini aso acuminmonurmus) piha 1-2. Diveno, exujo za beise zuarento

Po(A(\$1, ..., \$n) < O < B(\$4, ..., \$n)) > 1-E,

MO of norm D=02 Max organis

 $P_{\theta_1}(A(\xi_1,...,\xi_n) < \theta_1 < B(\xi_1,...,\xi_n)) \ge 1-\varepsilon$

Thomy but homegation Hi levingo Or & (A(E, , , En), B(Es, ..., En)), repez me, uso mana nogis una lang suoligmiems (the Sintime E) sa gravota cupaber surfacentits. Krunwing ensources une manung

luney: $K = \{(\xi_1, ..., \xi_n): O_1 \notin (A(\xi_1, ..., \xi_n), O_1, f(A(\xi_1, ..., \xi_n))\}$ Tipunyomuno rizo zgincheni ghi cepi i Leezanenz Hex Brenzo Sylanto, Za pezyromamann enne Ompulerni ghi teezaneneni besopnu.

$$\xi = (\xi_1, ..., \xi_n) \in F$$

$$n=(n_1,\ldots,n_n)\in G.$$

Hausrachine herebipeether ochobing rinomeza hpo chobine sampe poznopinil F = G. By ochy buhapry khumepi i Hazularom og khumepi peer openpriguenci. Bi hueuse cumujaryrene hepbi peer och
rinomeza who chilnaganus lune geenux hapanenimil poznopinil RVG. Poznonemo mani
rogazi.

Tronepepero zaybanusuo, uso mener un materio nom chocmepenens, om me, butophoteny horemopou syse R i khunurua emomenta K syse nom bupi puon.

Hercan choramny

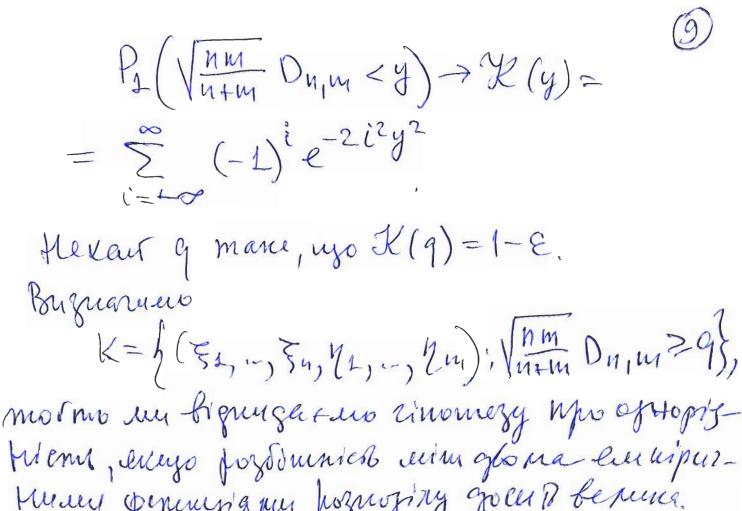
$$\xi = (\xi_1, \dots, \xi_N) \in \Phi_{d_2, \sigma_1^2}$$

1. Tiepe bipeg rimmez upo en bragamas quaignets. Tepelopican ocnobing cinomery H1: 0, 2= 52 Monu Hz: 522 + 522. Bruseremo ware rueno Ezo i heleur $\xi = \frac{1}{n} \sum_{i=1}^{n} \xi_{i}, \quad S_{s}^{2} = \frac{1}{n} \sum_{i=1}^{n} (\xi_{i} - \xi_{i})^{2},$ $\tilde{\eta} = \frac{1}{m} \sum_{i=1}^{m} l_i, \quad S_n^2 = \frac{1}{m} \sum_{i=1}^{m} (\gamma_i - \overline{\gamma})^2$ Ha venoti meoperny who brainstoer but pon of mopulation populary $\frac{n}{\sigma_{1}^{2}} \in \chi_{n-1}^{2}, \quad \frac{m}{\sigma_{2}^{2}} \in \chi_{m-1}^{2},$ vi bunagnosi besurenu terzarenini, mony jujo novygoloani iz nezareninen busipok. 3 yux bejnaprobed be surum des mento notiggifamy bunopes by betweeny, no lear posmogin divepa: $\frac{1}{n-1} \frac{n S_{\xi}^{2}}{6_{1}^{2}}; \frac{1}{m-1} \frac{m S_{\eta}^{2}}{6_{2}^{2}} = \frac{n(m-1)6_{2}^{2} S_{\xi}^{2}}{m(n-1)6_{1}^{2} S_{\eta}^{2}} \in F_{n-1}, m-1$ Theyo npabunha rinomeza H2, mosmo 02 = 522, $\eta = \frac{n(m-1)S_{\frac{n}{2}}}{m(n-1)S_{\frac{n}{2}}} \in F_{n-1}, m-1.$ 3a gonolwwo mas muje poznogi ny Fn-1, m-1 g nom ruto znadmu reiera 91 ma 92 mani, nyo Fn-1, m-1 (91) = = = 1 Fn-1, m-1 (92) = 1- = 1.

a wiene comangapungaunii $\frac{\xi - h \in \Phi_{d_1 - d_2}, \sigma^2(\frac{1}{h} + \frac{1}{m})}{\xi - h - (d_1 - d_2)} \in \Phi_{o_1 1}.$

3a Gracmubiemo pognoginy V-Kbagger I $\frac{nS_{\xi}^{2}}{6^{2}} + \frac{mS_{\eta}^{2}}{6^{2}} \in \chi^{2}_{n+m-2}$ ys bunaquole benume su zanemus lie pizne y &- Takener rechore, $\frac{\xi - \eta - (\alpha_1 - \alpha_2)}{6\sqrt{\frac{1}{n} + \frac{1}{m}}} : \sqrt{\frac{1}{n + m - 2}} \frac{nS_{\xi}^2 + mS_{h}^2}{62} \in T_{n + m - 2}$ Queyo maturing rinomeza Hs, mo 21-22=0 c' Jz matnuyt poznopiny T_{n+m-2} zneskogueno zneso g make, ujo $T_{n+m-2}(-q) = \frac{\varepsilon}{z}$. Togi lea few P1(-9<4<9)=Tn+m-2(9)-Tn+m-2(-9)=1-E, Omme, burpabuly $K = \{(\xi_1, ..., \xi_n, \ell_2, ..., \ell_m): |\psi| \geq 9\},$ $B_1 = P_1((\xi_1, ..., \xi_n, \eta_4, ..., \eta_m) \in K) = \varepsilon,$

y>0, mony n -> 0, m -> 0



Mens, everyo possoumiest evin gloma en uipur-Musey opening any possessy goes & bening. Togi Za bernnix