2) 489. 3 reasing ministry or may subspectors (2) hyrighest mornoly or my subspectors nagrith ognorey bungosybasis.). dinvuianthoro posnopry! $P_{M}(\mathcal{C}_{i}) = C_{M} p^{\alpha i} (1-p)^{m-\alpha c_{i}}$ ge sei - Rimberette molty nogit bi- my funpo-Sybarmi, m- Kimberet bempotybard b operacy gocarer n- reinculer gocarigil. Pozbejox. Rosygytero pinnegin biponignoesi; $L = P(x_1, \theta) \cdot P(x_2, \theta) \cdot \cdot \cdot P(x_n, \theta)$ Brazolegioru, yo 0=pip(sin, 0, =cmpa; $\times (1-p)^{m-x}$ output a few of your with hipothyloson's $L = [C_m^{x_1} p^{x_1} (1-p)^{m-x_2}] \cdot [C_m^{x_2} p^{x_2} (1-p)^{m-x_2}] \cdot ...$ x [cm poen (1-p)m-sen], aso L=(Cm Cm Cm).px1+x2+ ... +xm. (1-p) nm-(xy+...+xen) Sammeno lorapapeirmy permenin liportgues, lul = lu [em. cm. cm] + (=xi) lup + (nm- =xi) lu (1-p),
3 tiens gene repuis nozespry in p; $\frac{d \ln L}{d p} = \frac{\sum_{c=1}^{\infty} x_c}{P} - \left(nm - \sum_{c=1}^{\infty} x_c\right) \frac{1}{1 - P}$ poblement, curpour no vignes O i pos est meno P= (\(\sum_{i=1}^{2})/(nm). Shawgeen grupy modigny no pi d2hL = = xi nm - = 2xi
dp2 = - (1-p)2

Mosto re morna mancunayay i't car's when were an encurayay i't car's when were morna mancunayay i't car's when were the position of the position population was mapaula positional horse population proportion and the menumental proportion of the proportion of the population proposition is a proposition of the population of the population

Zagari Marios remember 10:1 Esporignocuis (1) 493. 3 Hearsmu nemopor eller cultimor (2) li porsproset 3 a busipres to 2 5 202, ..., Das mornoly och my religanore napanempa 2 Children novajundolovo poznosiny, ujniment $f(x) = \lambda e^{-\lambda x}$ (x20), luro Pozbuzou. Cherajano poperisto biporizrivenis. L= f(201; 0), f(202; 0).... f(20n; 0), bposolylow, upo 0=1 ma frquotrquo $f(\alpha; \theta) = f(\alpha; \lambda) = \lambda e^{-\lambda x}$ $L = (\lambda e^{-\lambda \kappa_1}) \cdot (\lambda e^{-\lambda \kappa_1}) \cdot (\lambda e^{-\lambda \kappa_1}) = \lambda e^{-\lambda \kappa_1} = \lambda e^{-\lambda \kappa_1}$ Theregeno evapuperiny populatio hiportenomi; lul=nln)-1 =xc. Stangaew nepung woodgry 3a); dlul = n - 5xi Barunens pienems Esporignems, gra voro Mupilmetous nepuy notigny mynto n - 2 2 200

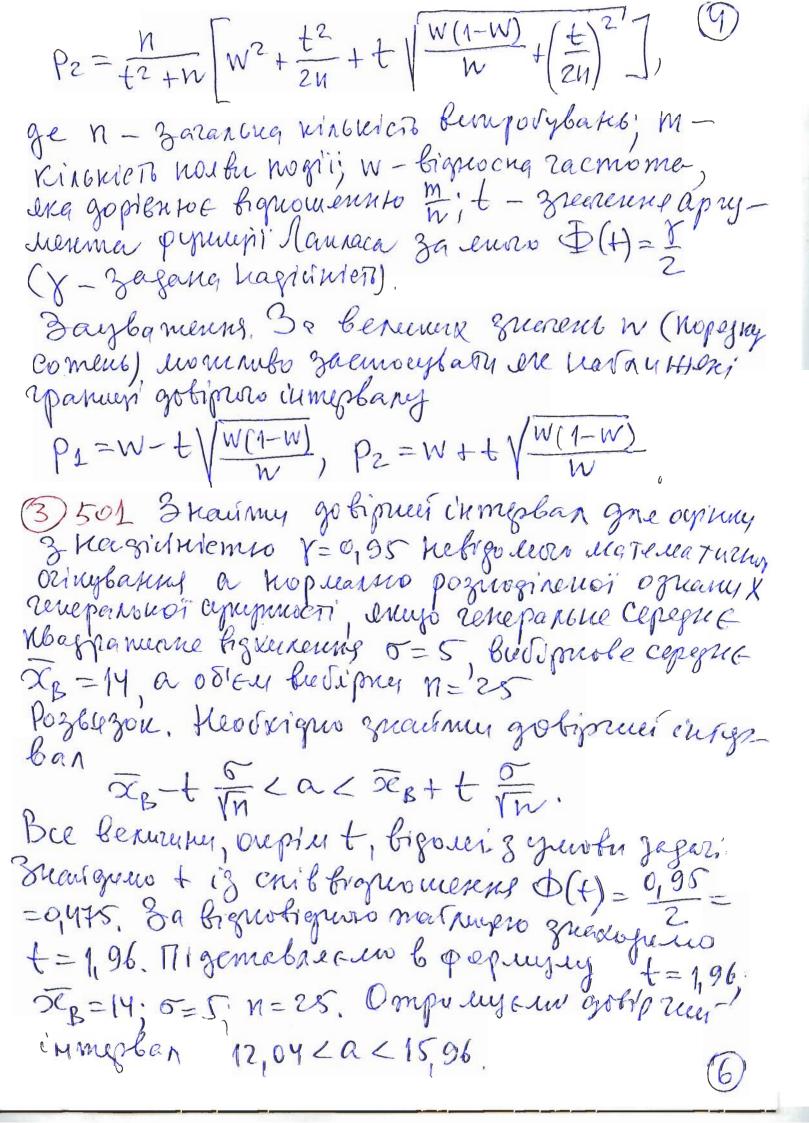
3

3 reaugeen upymurseg morny, gne row (2) poz blemeno ompunane premeno biguvero d: $\lambda = \frac{1}{\sum_{i=1}^{n} x_i} = \frac{1}{\overline{x}_B}$ Zhangeno grupy northy god: d2lm2 = (-n)/12 Kom $J = \frac{1}{Z_B}$ gryra usseigna figituma; Omme ye à morngro haneury my, mosmo Za ogitung Markannanbter Eiponignverni Norpisho Bzenn Pennany z Bopomus bresipnobben Cepepitaly: It = = Tumepbaacher ornierre THERE Shores Tuenasey - Kingley i'meplany, emig Franperbace rapament, uso depinto e mocs. Dobinuey Razularomi innuplar enui iz zajahojo reginnemo y renxpular napanemp, uso centrosla Tymeplanshoro orphiologiz reagisticiemo y)
lamereconorio orogibanne a representation poznoping
Kinswichor oznami X za Gutipushun cepezini TB 3a y notes hebigo eevro cepepiso Khagpameirion Riginary 5 repeparonoi cynymusemi E goffreni i'umeplania

 $\bar{\alpha}_{B}-t(\frac{6}{m})$ 2 a 2 $\bar{\alpha}_{B}+t(\frac{6}{m})$, ge $+\left(\frac{\zeta}{\ln}\right) = \xi - mornieme oginner, n-08/EM fullipres$ +-znerenne aprymenmy of ynnesis Sancaca D(+) $Cznesogureo za marxugero), za enoro D(+) = <math>\chi$; ROM 5- Metigone (ma obten butipment 30) ZB-ty(\vec{s}) 2 a < \vec{x}_8 + ty(\vec{s}),

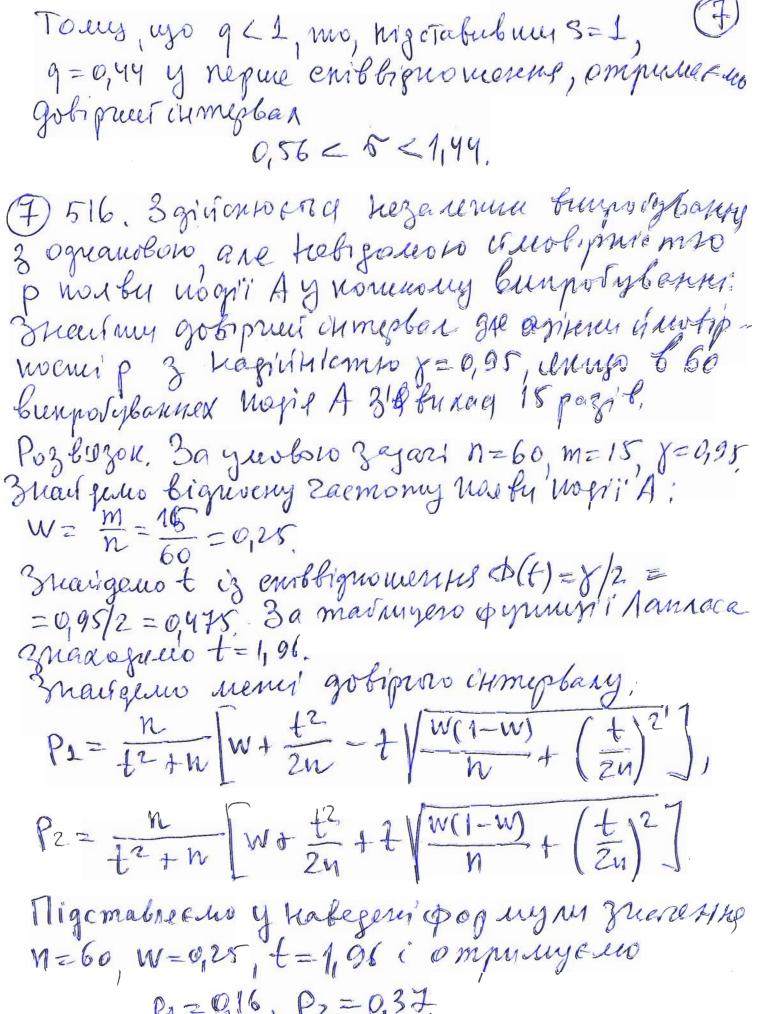
ge S- "bunpabrene" busiprobe cepepre kbagpathertre bignerpenne, to many surseq 34 manniquem 3ª garierun nix 2. Tumeplantitions ochimoso (3 teagrithiemsof) Cepepison Kbaspamurnoro figuramis o Hopmans-tio poznosi remoti Kirk Kicno'i oznany X 3 a "bunpabaenyu" butipnoby cepepisy Kbagpamernen bizymenney S E gobiprum i Hmepban S(1-9) < 625(1+9) (work 921), 0 < 5 < S(1+9) (wary 9 > 1), ge q znadogutos za maskuyero ma ganulu niz, 3. Унтервального одиного (з. недівнють у) rebigonoi i nobipusemi p Sinorianono pos-noginy za biguverno raemomoro W E go Esprint inmepbax (3 rathumenum Kinylun P1 i P2) PL < P < P2, $P_{3} = \frac{n}{t^{2} + n} \left[w^{2} + \frac{t^{2}}{2n} - t \sqrt{\frac{w(1-w)}{w} + \left(\frac{t}{2n}\right)^{2}} \right],$

3



(4) 506 Sreammy envirence med of En Bredignes 3a enuer 3 haginniemto 0,975 mortes oching) Mamerie nouvo enogitannes a renepartuoi cepuy nmen 3a biediproblem cepequin 6=0,3, Kony bigour cepeque abagpamente Gig senening 5=1,2 Hopmanono posmoprenoi reneparthoi cipuymnocmi Pozbyjok. Baemocy Eur populyny, za enero bugnarating morniam copiery learning murioro Oringbaung reneparthoi engujumenni 3a fadiprobus, Repepiry: $S = \frac{+5}{\sqrt{n}}$. 3 fragru learno $n = \frac{t^2 \sigma^2}{8^2}$. Fa y mobow zagari, y=0,975; manun mung Ф(+) = 0,975 = 0,4875. За видиовидиого тобруyero zuaxoguno t=2,24, y popujuy nigeradrefero t=2,24, 5=1,2 i 8=0,3, omprhyeno Mississent mui objess furigmes n= 81 n= (2,24)2. (1,2)2 = 81. (5) 508. Iz renepantuoi apapunson buune ma butipace, od Elion n=10: baproum xi -212345 'Eurone n. 21221 Thatmy orinny 3 haginhietro 7=0, 95 learneng nuruous enogitains à nopulantro pognoginetioi. Ograny renepartico: concymioenes za budyprofaces Cepequiu 39 gano nonvo gobiproro immepbany.
Pozblezon: Budiprobe elpeput ma "burpabaone"
Cepeque ub spammere big en renus znangeno (7)
biprobizno 39 posies racces:

 $\widehat{x}_{B} = \frac{\sum_{i=1}^{n} n_{i} x_{i}}{N} \left(S = \sum_{i=1}^{n} n_{i} (S = \overline{x}_{B})^{2} \right)$ Migeraheur & yn' populyny garn'zagari i'ompullacuo $x_B = 2$, s = 2, 4. 3 haugeus ty, Zaemocobyson Lignofisny Tab-luyro za zamuny 7=0,95 c n=10 zuckogumo ty=2,26. 3 reariquemo golipreus immeplas. ZB-tys/m LaZZB+tys/m. Mgcmabaetuo XB=2, ty=2,26, S=2,4, n=10 i ompunye no gobipues oumeplan 0,3 < a < 3,7 Irun transpelat teligone degmenarurne oring banne a 3 maginhierto 0,95, 6512 3a gammen busipmen objected n=1613 renepartuoi cipupmoemi znansperse "bunpalnem u cepe ghe ubagpanuome biganeems S=1 teopulanto poznogipenoza vinsulansi oznami. Znanmy gobipum Rospanne bigresses 6 3 hapinette 95. Poz 6430k. Sagara zboguna go woungny gotiprow immegbary 3(1-9) < 0 < 5(1+9). (wo m g < 1), 0 < 5 < 3(1+9) (mary 9>1). Da gannum zagari Y=0,95 i n=16. Za bignofig-horo masjurgero znavgeno q=0,44.



Tanuarunpy go siprus chomplan 0,16<p<0,37

8) 518. Euromobremeet encrepanemorachmet (8) mansmus abmouran, onus une zaseznorumin weby burpauca & ognosey bunaguy iz 100 onjuient uchemy & abmouen. Du repetipous posomer almonama zejisoneno 400 Guapos glant, za ereux burpay zybules 5 pazib. manny gstipues cumpban druck naupulat Metropoury Gustipuiss webs bupawa z nagidulemso Y=0,995. Pozbuzon. Znangeno bignocky Zaemony Weby burpaula: W= M=5 =0,0118. Breachmut ig childique wenne \$(+) = \frac{1}{2} = 0,999/2 = 0,4995. Sa mas reugero populy l'i Ranzaca zverkopuno E=3,3. eyeno god houghy nem go byproro vumeplany Has ru merer operingen: PI=W-t/W(1-W)/N, Pz=W+t/W(1-W)/N. Prigemalumo 6 y/ popuym W=0,0125, t=3,3, N=400, Ompumarmo P1=-0,0058, P2=0,0308. Masuo gosiprui iumeplaa 0 < p < 0,0308