Једнострани интервали иверена

- Cny γομπυ υμωορβαπυ γιμία je jegan κροή οστοβορα-jyta ιπατουνίνωκα, σου αργία κροή 3 αθνώ ος ckyta eθνα νόιγτα βρεμμοτού σαρανετορα

ged. - gobu 100.(1-4)-/.- He universion vollegets 30 0 има доку траницу и ало је:

P{ Un < 0}= 1-0

- Торьи 100. (1-х)-1.-не интервал иверек, 2c. в има торьу транизу Vn ако је

P{ 0 4 Vn 3 = 1 - x

υρυνορ: (X1,..., Xn) MCy us M(n, 62), In , 5, gaiso

Hatru Tophe u goku 10. (1-2):-Hu utwegbar vobeperso

Karo iaponeway m moste Suive ipousborat pearch froj, jegtourpatu univerbaru ioberetse, ustregojo oboro: (Un, +10) - 9064

(-m, K) - Toptou

Kpojebe jegtouporox vrive plane teno the cru-440 rao v kag glowporox- vocnawpajztu Herr woosep.

Ctroskep noje du motas que Han vouysku des de

Xn-mvn ntn-1

Metjuin Huje Han gaine peansobate Breghow circument penagy; $\widetilde{S}_{n}^{2} = \frac{n}{S_{n}^{2}} = \frac{1}{S_{n}^{2}}$ Kottenpyreaut grytaryju etrostep:

$$\frac{\overline{X_{n}} - M}{\widetilde{S_{n}}} \cdot \overline{N} = \frac{\overline{X_{n}} - M}{\overline{S_{n}}} \cdot \overline{N} = \frac{\overline{X_{n}} - M$$

Jegure posnura y ogyony na gloringame univerbare je wa uno tremo caga inposteuior cell i.g. bosto:

 $P\left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq c \leq -1 - d \end{array}\right. = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c} X_{n-m} & \sqrt{n-1} \leq -1 - d \end{array}\right\} = \int_{S_{n}} \sqrt{n-1} \left\{\begin{array}{c|c}$

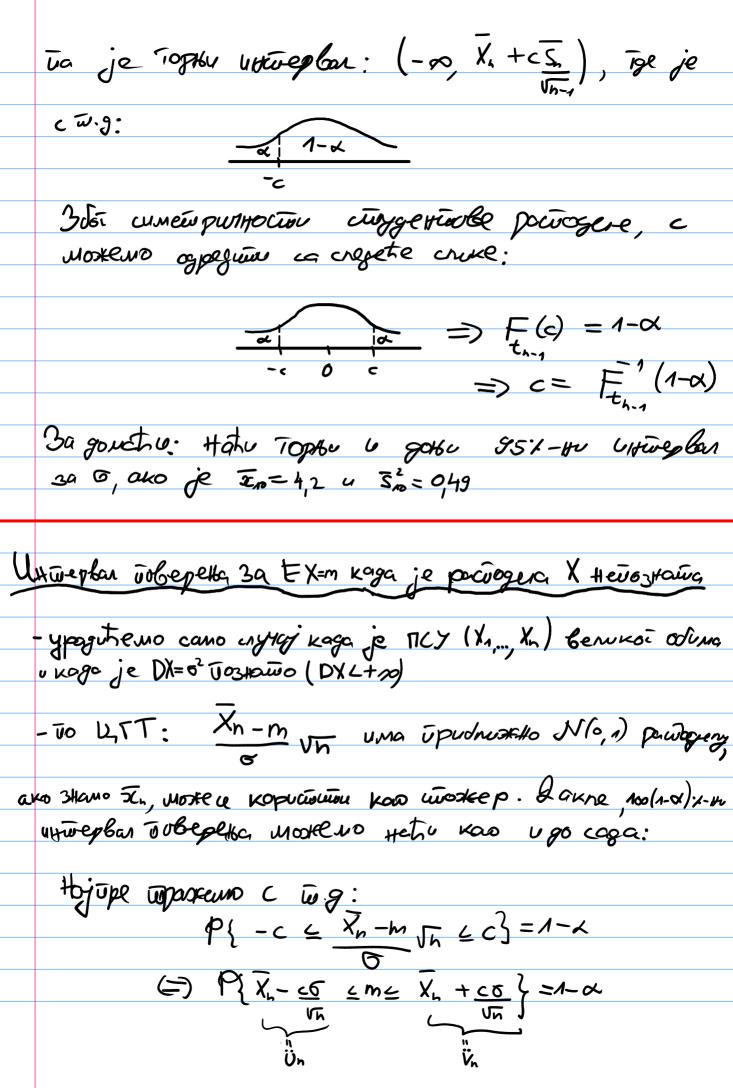
Kauso je $P\{\overline{X_n} - m \sqrt{n-1} \leq C\} = P\{\overline{X_n} - m \leq C \leq \overline{S_n}\}$

chegu ga je gobu uproephon: $(X_n - c\overline{S_n} + ns)$ Tge je $c \overline{u}.g.$ $f_{t_{n-1}}(c) = 1 - x \Rightarrow c = f_{t_{n-1}}^{-1}(n-x)$

$$= 2 \pm (1 - 4, h - 1)$$

Kag, yppiumo vostkine proproción inaniciones koje cy tam game, godijamo pransobaru gom 100(1-2)-7.-ru utiverbar vobereka za m.

Chuyto, P{-c \(\frac{\text{X_n-m}}{\text{S_n}} \)} = P{\m \(\frac{\text{X_n}}{\text{X_n}} \)}



a) (X1,..., X1) - n(y us E(x). Maga 2x \ \frac{7}{2} \times 12 \ \tau \ \cdot 2n. Morasainu. (obo obojuis o ce He noper stains Haironneis) 8) liperiocinabra ce ga ce subotion ber enextopisma ypetaja moste mogenobawu E(x) pawogenom. Ogadpan je PCY og n yptoja u zedene жена vy βρελενα κυτο-βε τυρογιατί α, α, α, ω, τη. Η ετι Λοο(1-2)-1.- η υμίνερ-βαν τοβερεικα τα στεκιβονι κιβοτίνη βεκ γρέτρja.

pewere a) 3 Hans ga $Y = \sum X_i \sim \Gamma(n, \lambda)$. Caga je volinje-Sho ga vokoskemo ga $2\lambda Y \sim \gamma_{2n}^2 \left(0 \text{ shotho } \Gamma(2n, 1)\right)$

Hot uno uplo d'in paculagere og 22):

 $F(x) = P(x) \leq x = P(y \leq x) = F_y(\frac{x}{2x})$

$$f_{uy}(x) = (F_y(\frac{x}{u})) = f_y(\frac{x}{u}) \cdot \frac{1}{2\lambda}$$

Tyrinum of
$$2\lambda J$$
:
$$f(x) = (F_y(\frac{x}{2\lambda})) = f_y(\frac{x}{2\lambda}) \cdot \frac{1}{2\lambda}$$

$$= (\frac{x}{2\lambda})^{n-1} e^{-\lambda \frac{x}{2\lambda}} \cdot \frac{\lambda}{\lambda} - \frac{x}{2\lambda} = \frac{x^{n-1} \cdot e^{\frac{x}{2}} \cdot \lambda^{n}}{(2\lambda)^{n-1} \Gamma(n) 2\lambda}$$

$$= x$$

$$=\frac{2^{n-1}\cdot e^{\frac{2^{n}}{2}}}{2^{n}\Gamma(n)} \rightarrow \overline{y} \overline{u} \overline{u} \overline{u} \overline{v} \overline{v} \Gamma(\frac{1}{2}),$$

og vocus Y'rn paciosene

δ) $\xi \chi = \frac{1}{2}$, $\bar{\xi}$ $\bar{\xi}$

Hotjuno valo C, UC, W.g. P(C, \(\sigma\) \(\sigma\) \(\sigma\) \(\sigma\) \(\sigma\) \(\sigma\) \(\sigma\)

Touto 22 ZX; una 12 pacidazeny, perm cuo ga ce ci ca du 140 dupojy waro ga:

$$\Rightarrow F_{\nu_{2n}}(c_1) = \frac{1}{2} , F_{\nu_{2n}}(c_2) = 1 - \frac{1}{2}$$

Karo je P(c, ≤ 22 ∑x; ≤cz}=1-x

$$2\frac{\sum_{i=1}^{n} y_{i}}{2} = 1 - \infty$$

 $\frac{2\sum_{i=1}^{n} Y_{i}}{2\sum_{i=1}^{n} X_{i}} = 1 - \infty$ $\frac{2\sum_{i=1}^{n} X_{i}}{2\sum_{i=1}^{n} X_{i}} = 1 - \infty$ $(2\sum_{i=1}^{n},2\sum_{i=1}^{n}X_{i})$ je wpasketu $(2\sum_{i=1}^{n}X_{i})$ je wpasketu $(2\sum_{i=1}^{n}X_{i})$ je wpasketu

Karo Sucmo Hamme jegnampaye univerbase? (3a gonatu)

- gossu univerbas te duin druka: (un, +xo)

- Tophu univerbas te duin druka: (o, h)

Hera je $(X_1, X_2, ..., X_n)$ N(Y) us $N(y_1)$. Karo y_2 tu $N(y_1)$. Karo y_3 tu $N(y_1)$. Karo y_4 tu $N(y_1)$. Karo y_5 tu $N(y_1)$. Karo y_6 tu $N(y_1)$. Huly Tortain and Tortain than je ga m je $N(y_1, ..., y_1)$? The Tortain $N(y_1, ..., y_1)$?

unano pearusobase bpostocious 4:= [{ X; >0} Ji~ Ber (p)

	p= P{Yi=13= P{Xi >0}=P{Xi-m>-m=1-4(-m)
	Mposturo mostep:
	_
	\mathcal{L}_{Γ} : L
	$\mathcal{L}_{\Gamma \Gamma} : \frac{\mathcal{I}_{n} - \mathcal{P}}{\sqrt{\mathcal{P}(1-\mathcal{P})}} \mathcal{N}(o_{1}) \qquad \mathcal{I}_{n \text{ možemo izračunati, jer su nam poznati}}^{\mathcal{I}_{n} - \mathcal{P}} \mathcal{N}(o_{1})$
	385: P = 4
	385: P≈ Yn - û pew vo wabiteno ga yn Huje druzy o v 1
ga Ham	$-\omega \omega \mathcal{L}_{\mathcal{F}}$: $\mathcal{J}_{\mathcal{H}} - \mathcal{J}_{\mathcal{H}} \sim \mathcal{J}_{$
бузе чаки	izračunatiti, kao i
	možemo izraziti m
	- wposseumo c w.g:
	P{-c = Jn-P Vn < c}= 1-d
	1 Ju(1-74)
	7 P(9 (VEIAE) , Q V () [EV. 5)
	$(=) P(\bar{y}_{n} - c\sqrt{\bar{y}_{n}(1-\bar{y}_{n})} + p(\bar{y}_{n} + c\sqrt{\bar{y}_{n}(1-\bar{y}_{n})}) = 1$
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	Ü.
	P [U _n ≤ 1-φ(-m) ≤ V _n] = 1-∞
	(=) P{ 1-1/2 ≤ Φ(-11) × 1-1/2 >=1-0
₹ /=	DE 1 => PS D (1-16) & -ME D (1-U1)=1-0
	(=) P{-\$ (1-Un) < m < -\$ (1-Vn)} = 1-0
	$(=) (-\Phi^{-1}(1-V_{h}) - \Phi^{-1}(1-V_{h})) \dot{g}e$
	Wastern Whireplan weegethen