1) гайте дефиниция за спугай на велишна в дадень веродий носийно прошераний во

We Hera V e веродий носий но проширанай во « Toro ва

X- Ω → R re но спугай на велигино, шо гова когай о

На,ь, а,ь ∈ R е в сипо Х'! (а,ь)) ∈ Н, къдей о

У'(В) = 1 w ∈ Ω | Хии) ∈ В в о Т.е. шрябво до имаме

ВЕК

възмонносий до канем какво е веродиньший х да

е меняду а и в.

2. Destregent non suivenir orar Carre u giorepous Ha groupeni na cryrai na Generula.

une ex pasoupone: EX= Exiopi, a ED

Exilopi 200

Un Hera X e guck. cn. Bea. c orarbathe EX. Toraba

DX:= \(\frac{1}{2} |xi - EX|^2 \cdot pi\), where DX 200 ce thepura

guchep and the X.

CAN Explil; a) Hamepewil obyth kyr guia the MOMEH within to Ynn Man 1 Yn M [[n,n] = 7 + x | x) = } = } 1 x x e x = x x e x = x rex fealx) = } \lambda \text{i.e-1x} , \text{ x \ge 0} \rangle \lambda \text{i.e-1x} , \text{ x \ge 0} \rangle \rangle \text{i.e-1x} \\ \text{o} \text{j.e} \\ \text{o} \\ \text{o} \\ \text{j.e} \\ \text{j.e} \\ \text{o} \\ \text{j.e} \\ \text{j.e} \\ \text{o} \\ \text{j.e} \\ \text $- M \times |H| = \# e^{+x} = \int e^{+x} dx = \int e^{-x} dx = \int e^{$ = $\frac{1}{t-1} \int e^{x(t-1)} dx(t-1) = \frac{1}{t-1} \left[e^{x(t-1)} \right]^{\infty} =$ $= \frac{1}{t-1} \left[e^{\infty} - e^{0} \right] = \frac{1}{t-1} \left[0 - 1 \right] = \frac{1}{t-1}, \quad |t| < 1$

S) Homepewe do yn equipare to Momentiate Myn(t) to Yn

Myn(t) =
$$de^{tx} = \int e^{tx} \cdot x^{h-1} \cdot e^{-x} dx = \int \frac{e^{tx} \cdot x^{h-1} \cdot e^{-x}}{\Gamma(n)} dx = \frac{1}{\Gamma(n)} \int e^{-x} x^{h-1} dx = \int \frac{e^{tx} \cdot x^{h-1} \cdot e^{-x}}{\Gamma(n)} dx = \int \frac{\Gamma(n)}{a^{h-1}} \frac{\Gamma(n)}{a^{h-1}}$$

Hera Cosmothinue aux vitours na 4 ca X=11,2,34 c Gepsquittours 1 p1, p2, p34

a) Bobegeire &[XIY] rains pemerre na orumnus growna Bagara

Le Hera Xu Y ca cryeau mu be muntiu, To raba 6*1Y) = #[X1Y] e was cryeau no benuzuma, rogue

mun mu supa min $\#[X-G(Y)]^2 = \#[Y-\#[X1Y]]^2$

2) Usbegence dopmynanie sa et [X 14] 4 = {1, 2,34 4 P14=il=pi, ie/1,2,54 = P &[X 14] = { P[X 14=0] - 1/4=14 4.) ARO X~N/Y,1), Harrepeut &X У приема стойност 31,2,34 с веродиност 1 рг, рг, рг, рз LA NOU Y = y, X e HOPMONHO pasopegenerra c $M = y + \delta^2 = 1 = x + (x + y + y) = y$ #X - # [#[XIY]] => EX = #4 2-EY = { i o PIY=i) = 1. p1+2. p2+3. ps = 47-p1+2p2+3ps. 3. a) Upes (xn) n=1 Cob egent xn d x, xbgeno x e Hakar Ca on Generaly 4 Kasbane, re knypotoravia peguyawo In knottu 1511 cruzai Hawa Ceau WHO X no pashpegenettue 1 a to Grara wolka Ha Henperson PXIXI= PIXEX) e G9PHO, ?e FXnIx) = PI Xn = X | d PIX = X) = FXIx) u numer Xn de X,

6. Epoqui на tainació podou в България за пединици а Epene ce mogern pr c 4n 2 Poiln). 1) Hamepeuie no Patti go uzania ob -9 Ha Yn. Yn M Poiln) - PIX=K) = 1K e-1 g yn 15/= { 5 0 1 0 e 1 = e 0 e = e 1 15-11 = P 1=n => e n/s-1) 2.) 3a n = 100 000 kar 6g p Gepoquito cei il / profru Humento) ge umane nobere où 100000 ravio aupo du? Yn ~ Poil 100 000) , Pl 4n > 100 010) =? Yn= \(\chi + \chi 2 + \chi 3 \ldots + \chi 100000 = \(\xi \chi i \), \(\chi n \text{Poil(1)} \) Exi= 1= 1 = \frac{\lambda{\chi}{\chi} \times 1 - 1000000 \cdot 1}{\chi} = \frac{1}{1.000000} Plyn > 100 010) = P \ \ \frac{\frac{100000}{100 \tag{60}}}{100 \tag{60}} \} \ \frac{100000}{100 \tag{60}} \} = PIN(0,1) > 10 (10) = PIN(0,1) > 10(10) = PIN(0,1) > 1/31,62 ≈ 1- PINIO,1)) < 0,03 = 1-0,5120 = 0,488 où wosmyana 31,62 \$0,03

9840 = 0110,0 L (MOIU)9 = (5700) < (MOIU)9

Campagon in

CO 0 5 90

1.) Гайше обща дефиниция за максимално привдоло добне Оченка

Le Caram uni una una O(X), ce to purga ogether to Menio ga 149 M. N. and $L(X, \hat{\theta}) = \sup_{\theta \in \Theta} L(X, \theta)$, respective to the theoretical so of goryanium another and so of the Aco $f_{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X}|_{X}^{X$

- 2.) Ham epeute Markumanto n palgonogo Sto agenta 30 & u tam epeut oyen ra no newogo ta momentiume.
- 3.) Bapto nu e, re Marcamanto noulgo nogo Stavio ogenta u ogenta no newoga to momentual ca anto como qui entra?
- Hera U~ U10,1). Hera X=U°, 0>0 e cryzai to Benurura,

2) дефинирацие понтичено зентрапно айаничика и обяснете как ий се изпольба за констругране на доверий елен интервал?

Ve Hera TIX,0) е mainum ura. Казваме, ге Те Уент рапна статистика, ако:

a) Te cuipo no MOHO WOHHO (1) NO (3)

8) PITEX) = Frix) He sabucu où G