- 1. гефинирание спуганно велишно выб верояшныстью пространий во.
 - н Нека V е веродиносийно пространий во . То гаво X: I2 → R е спугай на вет чина, шогаво котато На, b, a, b + lR е в шпа х-1/(а,b)) + А, кь дето X-1(B) = 1 w + 2 / х/ш) + В 4. Т. е. шрава да чнаме век вымоннюсийна да ганнем каква е веро ягиносийна х да е менням с чь.
 - 2. Bib Begente nottqui vento no patigayo do ytay q 49 chyzai Ha Beni Wila ged 30 guct?????

Up Hera X e genowichen, Hear pryamenta, quick pening chyrain that Genu wird 6.66 Gepognithous nowin patients $V = \{2, +, P\}$, xano $X^{\circ} = 2 \rightarrow V = \{0, 1, 2, -, 4 \text{ word Ga}\}$ $g_{X}(S) = 4S^{X} = E S^{X} p_{X}^{*} = E S^$

- Бернули 1 с веродиноси за успех р

en Bin(n,p), moraba uro son examo e caequaing: $X \mid 0 \mid 1 \mid --- \mid t \mid --- \mid h \mid$ $P \mid g^{n} \mid n \cdot p \cdot g^{n-1} \mid \binom{n}{k} p^{k} g^{n-k} \mid --- \mid p^{n} \mid$ 4. dop myn pai une vier per aura Ha Moalbp-Nan rac ir no 360 ng Ga ga ce 43 no 1569 HO PMANHOWN pasipegenettue sq apportunition of the agreement out MHOTO chigrainte Generalter, Kound amali nogosto pa 31 pegenetue us ZN N(0,1), Xn N Bin(n,p), p Elo,1) $\frac{P| \times n - np}{\sqrt{np(1-p)}} \leq x) \xrightarrow{n \neq \infty} P/Z \leq x)$ 2. Hera UNUIO,1), X-11 20 no-neces accircu A.) Hamepeule orarbaneuro u guerepaignia Ho U

X ~ U(0,1)

 $\forall X = \int x \, dx \, dx = \int x \, dx$ $\forall x^2 = \int x + x \cdot x \cdot x \cdot dx = \int x^2 \cdot 1 dx = \left[\frac{x^3}{3} \right]_0^2 = \frac{1}{3}$ $DX = dX^{2} - \left(\frac{1}{2}\right)^{2} = \frac{1}{3} - \left(\frac{1}{2}\right)^{2} = \frac{1}{3} - \frac{1}{h} = \frac{h-3}{12} = \frac{1}{12}$

2. Hamepeure egytregugua Ha Monetiuwe Ha U u zpes

Hea Hamepeure
$$\notin [u^{k}]$$
, $k \ge 0$
 $M \times It$) = $t e^{t \times} = \int_{0}^{\infty} e^{t \times} \cdot 1 \, dx = \frac{1}{t} e^{t \times} \Big|_{0}^{1} = \frac{e^{t} - 1}{t} \xrightarrow{t > 0} 1$

1.) Bebegeur exognimonin no bepoquimonin u passumenie chabuq sako H za ronemune zuena

General X no Gepoquinoui aro

P[Xn-X|>E) - D 4 numer Xn P X, HEDO,

Hera upane pegnya où egtarb pa sa peger et u hera bucu um cryzair tru beruzuttu (Xi) i za c ozarbatua (bouibenito tXi. Kasbame, re X e us nontret loras)

 $\frac{\sum_{i=1}^{n} x_i - ex_i}{n} \xrightarrow{p} 0$

2. 3a Grata rogully $n\geq 1$ pawiethoù the yestaño the akwing l'ramo npo nopyng) ce mogen pa c e_{2n-1} n exp(1) sq nopbo wo we can rece we u c e_{2n} r exp(1) su e_{2n} rece we u c e_{2n} r exp(1) su e_{2n} rece we converte e_{2n} resolution e_{2n} resolution.

a) Aro replota rantaura yeta to acuiche e 40=1, wo KONKO C JEHANIG EN CNEG N WEAR MECERNA. Can-1 MExp(1) ean NEXP 10,9) - VN = 10 ° C2n-1 ° C2n = = 80 0 | e2n-1 0 | e2n Hera Kupoilaliasoi u co gagetu Hashtogetug Hag X,
03Haretu C X= 141.40 1) Hamepeut nopamganjania dog th kyri si Ha X u us begenne rpes the si orac Cat ceiro u gueneparania Ha X. xmPoilX) => fxlx)= 1k · e-x , k ≥0 $(x g \times 15) = (x \times 2) = ($ g'x1s) = = = = = \langle e^{1/5-1)} = \langle e^{1/5-1} \langle | \langle e = 1 $g''x15) = \frac{d^2}{ds^2} e^{\lambda |S-1|} = \frac{d}{ds} \lambda \cdot e^{\lambda |S-1|} = \frac{1^2 \cdot e^{\lambda |S-1|}}{|S-1|} \frac{1^2 \cdot e^{\lambda |S-1|}}{|S-1|} = \frac{1^2}{|S-1|} e^{\lambda |S-1|}$ WX A EX2 YEAR $Dx = g'x(1) + g''x(1) - |g'x(1)|^2 = 0$ $-1 + 1^2 - 1^2 = 1$

Les notherne +1,..., In ca Hesselwa we a eghacho pashpegenera, no partiganga wa dog thang that cynamia, use organ pour egentue où où gentuire no partigo upe obythagu u

$$= \frac{1}{2} g_{\gamma(s)} = \frac{1}{1} g_{\gamma(s)} = \frac{1}{1} e^{\lambda(s-1)} = \left(e^{\lambda(s-1)}\right)^n = e^{n\lambda(s-1)}$$

$$= \frac{1}{1} \frac{1}{1} e^{\lambda(s-1)} = \left(e^{\lambda(s-1)}\right)^n = e^{n\lambda(s-1)}$$

3.) Pregnomenie uis roba ogenta za l no meniogo na momentimie u onprogeneur gani uig e neusmecimena u checioquienna

Le en sup ushin mo methan: $\overline{X} = \frac{1}{n} \stackrel{\text{Ex}}{\leq} \overline{X}_i$ Le npup abhybane $\lambda = \frac{1}{n} \stackrel{\text{Ex}}{\leq} \overline{X}_i$ $\Rightarrow \lambda = \overline{X}$

To oyer raise e Herrenewaro aro
$$\#[\lambda] = \lambda$$
 $\#[\lambda] = \#[\lambda] = \#[\lambda] = \lim_{n \to \infty} \#[\lambda] = \lim_{n \to$

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