· выбория - набор ИЗ сомнанова распред. сили. Вешь. Основная задага статистики Природа сици. эвлений = эсарантеристини of 1 ears N new, na returno nomina M new. bond. or new. P(cpegu augr. or early pobus on na nexugur)-? u nux m -> nemy pabro M? upueyresbyet otp. 2. 7 &~ N(1,4) ~ (2007. 00016.09. EX=1 P(ze[0,1])-? σαχ: ζ~ N(α,σ²), α, σ-news., no ecto καθορ χ,,..,χ. 13 pereny. Ocnobian zagara examicanim no 113 peaninament sumepuntenta bircuajaro cyragenne 1 Craticolina de organia de la Bribopia - nasop nejabuculos callianso not.: X,.., X, pacupegereinurx auguativux berundun X_i: N→R def · Peannanus bistophin - $b \cdot p \propto = \begin{pmatrix} x_i \\ \vdots \\ x_n \end{pmatrix}$, rae $x_i = X_i(w)$, so ucxog def · Craniconera - pyrikulus or bistopieu ramp., P= (N(a,02)) def 07 3 cemeicobo pacopegnermi P= [P0 | OED]. ac R, OE R.)

O-napamet p cemeicoba P; micro - 22?

O-napamet p cemeicoba P; micro - 22?

O-napamet pob napamet pob ne sp. avenuoù P= [R × R.

Gratuctura O(X) ray. ouenvoù, echi ee un bo gvar.

bipiseur h (B) bisitions B @ Opumetro coarectus. 1) g(x) = 1 \sum_{in} \sum_{in} g(x_i) - busopounas x ua de un a

 $\bar{X} = \frac{1}{h} \sum_{i=1}^{n} X_i - bnooponnoe opeanee$

$\overline{X}^{k} = \frac{1}{N} \sum_{i=1}^{N} X_{i}^{k} - bendaponuria namera k. 20 nopsaka$
2) $S^2 = \overline{X^2} - \overline{X}^2 - bintoporturas guenepeux$
$\frac{1}{h}\sum_{i=1}^{h}\left(x_{i}-\overline{x}\right)^{2}$
3) Bapuariusui pia: Orcopi, birbopry no boggaco.: $X_{(i)},,X_{(ii)}$ $X_{(ii)}$ kay. Ve ii nopegnoboti crameriusoti
$X_{(1)},,X_{(N)}; X_{(N)}$ kay. It is nopseguaboti cramenticati
Aprinepor pearingais. Bird.
$\alpha = (2,1,5) \rightarrow \bar{\alpha} = \frac{2+1+5}{3} = \frac{8}{3}$; $S^2 = 10 - (\frac{8}{3})^2 = \frac{26}{9}$
bapus. pla - 1,2,5 $x = (0, 1, -1)$ $\Rightarrow x = 0, 5^2 = 2/3, \text{ bap. pla}: -1,0,1$
$X_{(3)} = \max(x_1, x_2, x_3) \rightarrow X_{(3)}(w_1) = \max(z_1, z_3) = 5$
$\times_{(5)}(W_2) = w_{q_X}(O_1 - 1, 1) = ($
Yup. EX, DX -? kontopus - agruan. nap. > E
EX=1 \(\frac{1}{2} \) \(\fra
$\widehat{DX} = D \frac{1}{N} \sum_{i=1}^{N} EX_{i} = \frac{1}{N} N EX_{1} = EX_{1}$ $\widehat{DX} = D \frac{1}{N} \sum_{i=1}^{N} X_{i} = \frac{1}{N^{2}} \sum_{i=1}^{N} DX_{i} = \frac{1}{N^{2}} N DX_{1} = \frac{1}{N} DX_{1}$ $\widehat{DX} = D \frac{1}{N} \sum_{i=1}^{N} X_{i} = \frac{1}{N^{2}} \sum_{i=1}^{N} DX_{i} = \frac{1}{N^{2}} N DX_{1} = \frac{1}{N} DX_{1}$ $\widehat{DX} = D \frac{1}{N} \sum_{i=1}^{N} X_{i} = \frac{1}{N^{2}} \sum_{i=1}^{N} DX_{i} = \frac{1}{N^{2}} N DX_{1} = \frac{1}{N} DX_{1}$ $\widehat{DX} = D \frac{1}{N} \sum_{i=1}^{N} X_{i} = \frac{1}{N^{2}} \sum_{i=1}^{N} DX_{i} = \frac{1}{N^{2}} N DX_{1} = \frac{1}{N} DX_{1}$
2 Choûrba Oueror
Обозначения: Po Po-n.н. 1
Oboznarenus: Po Po-n.n. Jeb-ba b npegn. ucrunwoczu O Do
def. Orienza ô(x) naj necueujennoù orienzoù nap pa o, ecur
$A \Theta \in \Theta \ P E^{\Theta} \Theta = \Theta$
def. 7 X,,, X, - Brisopra -> ouenna Ôn (X,,, X,) vay cocroserentrois, eau y OE O b cxog. no bep. Th ôn o, T.e. y OE O y E>O b Po (110,-011>E) -> 0
$def_2 \circ 7 \times_{1,} \times_n - b_n \delta_{0} p_{\kappa_0} \rightarrow ouenka \hat{\Theta}_n(\times_{1,} \times_n) kay culture correct,eaux HOe \Theta: \hat{\Theta}: \hat{\Phi}_n \xrightarrow{p_0 + m} \Theta, T.e. HOe \Theta \mapsto P(\lim \hat{\Theta}_n = \Theta) = 1$
de f_3 ° 7 $X_1,, X_n$ - βνηδορικα -> οιμενικα Θη($X_1,, X_n$) και ασωνητότωτες κα κορμαμόκου, εσω $\forall \Theta \in \Theta : \sqrt{n} (\widehat{\Theta}_n - \Theta) \stackrel{de}{=} \mathcal{N}(0, \Sigma(\Theta)),$ εqe $\Sigma(\Theta)$ - οσωνη.
Course ch. b pasup. 3700 exog. croga payli. dim @ x dim @.
1) otherseque -> 0 eau dim 0=1, To 0°(0) - ac. que

254 ο
$$\{x_n\}$$
 - βροδορια: $E[x_1]$ < το x_n = $E[x_n]$ - βροδορια: $E[x_n]$ < x_n (x_n) = x_n = x_n

no def a.u.o. X-ac. uspu. overma 1/0 c ac. guan. 1/02	
o no genera nerrogy c pret $h(x) = 1/2$ $\Rightarrow h(x) = 1/2 - 0 \text{ u.o. } h(1/0) = 6$ c as, guen. $\frac{1}{6} \cdot \left[\left(\frac{1}{2} \right)^{1} \right]^{2} = 0^{2}$	Э,
\mathcal{E} ae. guen. \mathcal{E}^{i} (\bar{x}) $=$ 0^{2}	
· uneplan: (\frac{1}{\overline{\chi}} \frac{1}{\overline{\chi}^2 \frac{1}{\overline{\chi}^2 \frac{1}{\overline{\chi}}} \frac{1}{\overline{\chi}^2 \sqrt{\overline{\chi}}}	