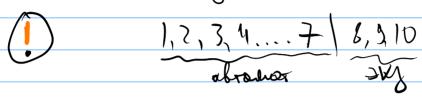
## Truber !

Thabura und

· won = 0.6 hanon + 0.4 mg havon = 0.2 uby + 0,4 gg + 0,4 kp



yna Cyri!

1) Ant ponus: ywobras, cohuechas 2) DKL KL 3) op -us mabzonagosus u AIC.

def A - coobieure\_

sucprise = he mga puro cos

 $s(\lambda) = \log_{\frac{1}{2}} P(\lambda)$ 

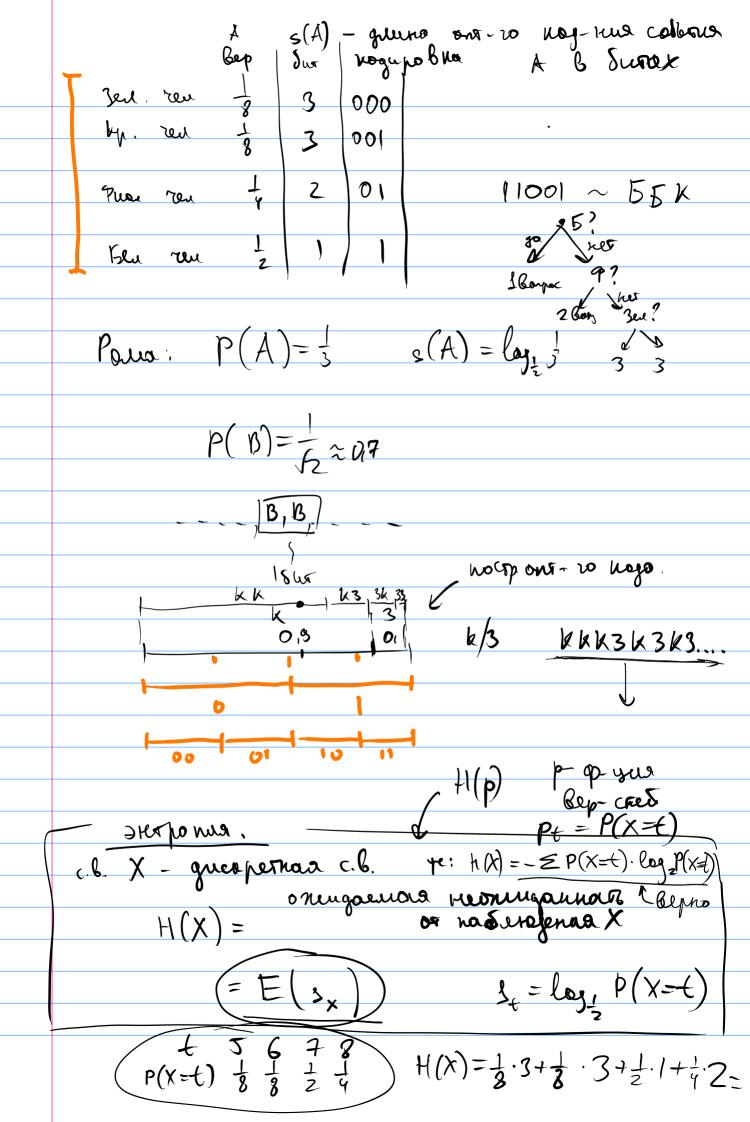
won boyen

cup (pabr tey) noci-cro y ou/

 $P(A) = \frac{1}{8}$  s(A) = 1 0010[1][D101.

P(X=1, X=1, X=1)=

Bellela



|     | = \frac{6}{3} \frac{1}{2} \fra |
|-----|--|
|     | lonetin !  |
|     |  |
|     | renoù?   |
|     | ne mon !   |
|     | of wheth !!  |
|     | H(X) - Mouldin Bown ash & margin & hereite   |
|     | H(X) - Charleto Bonjoch & zaketnax hypers<br>B cpajan zagato, crosse yragato X.  |
| ( ) |  |
| del | Gaobras menorus M(X(Y)   |
|     | 1 1 1000 11111 ( 10 10 10 10 10 10 10 10 10 10 10 10 10  |
|     | Jarobras surporus $H(X Y)$ Tarribras: anomoro (le apreprien) dus  unoso nepegosos, moste genera X, eau Y  ynce maen.   |
|     |  |
|     | H(X Y=y) = Z P(X=x Y=y) · log . P(X=x /=y)   |
|     | (1(X Y) = & P(Y=y). H(X Y=9)   |
|     | D= Sa, B, C b, e3   V=0 x-1 y=2)   |
|     | X(a)=5 $X(e)=7$ $x=1$ $0.1$ $0.7$ $0.3$  |
|     | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |
|     | $\begin{array}{c c} \chi(c) = 1 \\ \chi(d) = 2 \end{array}$  |
|     | yrp H(X Y)?  |
|     | P(w), + + + + + + + (Y X)?   |
|     | (4) 1 -1 -1 -1 H(X) = 0  |
|     | $\sim \sim $  |
|     | Y(w) = 5 2 2 $Y(x) = 5.0 + 2.1$  |

bet colve. Huxpohua H(X,Y) - cuartoko la cregier Tex ungo negueno yznas, rossu ynaso u X, u Y. H(X,Y) = Z P(X=x, Y=g) · log, P(X=x, Y=g) H(X) + H(Y|X) = H(X,Y)yup: gok-To.  $H(\lambda) + H(\lambda|\lambda) = H(\lambda'\lambda)$ Lecully. del Brancinas uno yus (mutual) My (X/Y) M(XY)  $I(x'\lambda) = H(X) + H(\lambda) - H(\lambda'\lambda) \qquad (2^{n})$ Curuni Dubennetisus kyrodava-loudsepa kl (XIIY) kullback-Leibler livergence KL(pllq) = (E(pllq) - H(p) - notigne l's surgere = CE(pllq) - (E(pllp)) st he ont. not us det knocc-stronus CE(XIIY)-- charber Sur mapo (8 charren) trougo nompresso, eche usantimel par np- ne X, a nograpolica ontu u- ha mag pacup ue Y. 1 mup. 5 9 k 3 [ne masse!]

u.a. p = 1 + 1 = (zanon) megn 9 1/3 1/2 t Corrage (moyell) megn.

Teoperna: