

+ 1). Mouro Kroust, Maro nyregemakumenen

2) He odrzamenowo bugewin ynymown

3) Hagempaina mag saree ciorcramen nagenamm

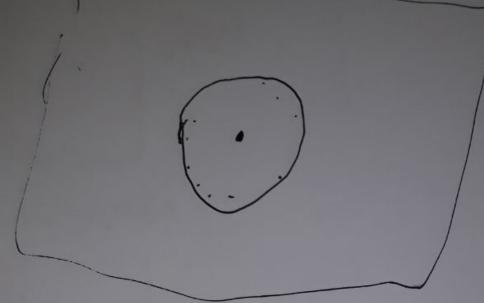
- 1) Hymsia bur boldopma

2/ Прожитье размерности

3) Davo padoma em

+ Tylemburnasen K Mallumasy

Прокляти разменности.



$$V_{uugpo} = \pi R^{2}, \frac{4}{3}\pi R^{3}$$

$$CR^{n}$$

$$R-E, E70$$

$$\frac{C_{1}R-E^{n}}{C_{2}R^{n}} = C_{3}\left(\frac{R-E}{R}\right)^{n} \xrightarrow{N\to\infty} 0$$

KD-glpeboa d=10-20 - Manupureuxa

d7720 - gamo

Locality sensitive hashing (LSH)

FUNDATED X1, X2 EX

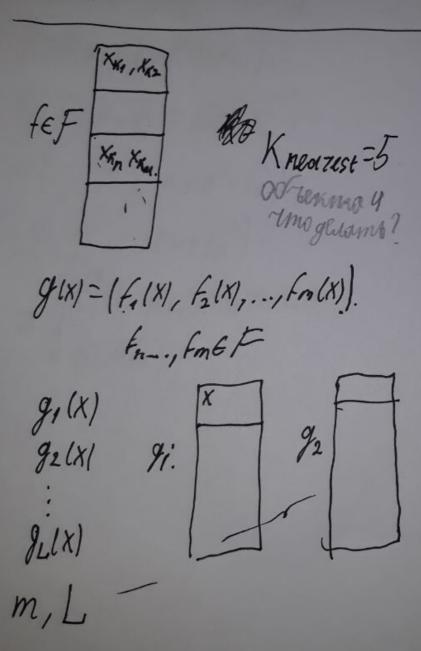
 $F(x_1)=F(x_2)$ $X_1 \cup X_2 \in \mathcal{A}$ $F(x_1) \neq F(x_2)$ garreno.

Onp: centium of Frazbibaemas (d_1, d_2, P_1, P_2) - Tybershimannum $ean + x_1, x_2 \in X$: $ean f(x_1, x_2) \leq d_1, mo$ $P(f(x) = f(x_1) > P_1$.

ecum $P(X_1, X_2) / d_2 m_0$ $P(f(X_1) = f(X_2)) < P_2$ $P_1 / P_2 d_1 \le d_2$

Истрика Джаннарда (Jackard) AB AB- www. Pr(A, B) = 1- [ANB] U={U1, U2, -, Un} A,BCU T = {UK1, UK2, UK, UKn} fatA)=min{Tulli) lu: EA} F={fn | MEDECT(U)} Int: beparmenount uno the F hygem ogunandoù ma A, Bpalmo $\frac{|A \wedge B|}{|A \vee B|} = 1 - \beta, |A, B|$ 1) UEA, UEB - Poorsenmob 2) UEA, U&B UM U &A, UEB. - y assumpt 3) U #A, U # A (p+9)-1-P+(A(8)

 $f_{\tau}(A, B) \neq d_{1}$. $1-f_{\tau}(A, B) \neq 1-d_{1}$. $p_{1} > 1-d_{1}$. $p_{2} < 1-d_{2}$. $(d_{1}, d_{2}, 1-d_{1}, 1-d_{2}) - ty$ furthern.



Bep- mo moro uno myser bel ungrimum X=0.1. 8=1 X2=0.5 4==2 formaning ~ U[0,1] P(P(U,X1)>8(U,X2))= P(10.12+ 52 7 10.52+ 52)= =P/0.12 52 > 0.52+52)-=P(3, 20.24+32)= = \int \int \dx_1 \dx_2 \in 0.275