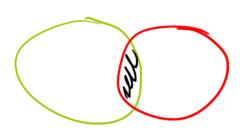


1) N ... borng epei en E

(ع



P(A) UP(D) = P(A/D) UP(A/D) UP(A/D) P(A) UP(D) = P(A/D) UP(A/D) UP(A/D)

= P(AB) + 2P(ANB) + P(BA) $\Rightarrow P(AUB) = P(ANB)$

3) binom ... kolik úspēchs z n pokuju geom ... po kolika lodecl 1. úspēch

$$b(0x) = 1 - b_{3}$$

$$(1 - b_{3}) * (1 - b_{3}) * (1 - b_{3})$$

$$(1 - b_{3}) * (1 - b_{3})$$

$$(2 - b_{3}) * (2 - b_{3})$$

$$(3 - b_{3}) * (2 - b_{3})$$

$$(4 - b_{3}) * (2 - b_{3})$$

$$(5 - b_{3}) * (2 - b_{3})$$

$$(5 - b_{3}) * (2 - b_{3})$$

$$(7 - b_{3}) * (2 - b_{3})$$

$$(7 - b_{3}) * (2 - b_{$$

$$P(k) = P$$
, $P(D) = P$

a)
$$P(0) = P(K \cap D) = \frac{P(K \cap D)}{P(D)} = \frac{P \cdot P}{P} = \underline{P}$$

Some
$$2x$$
 worker $\frac{1}{5}$ $\frac{1}{5}$

PS. " promi padla 6 =
$$\frac{1}{6}$$
 droba me nezajima

$$NS = \frac{1}{36} \text{ models of } = \frac{1}{36} \text{ P(1=6)} \cup \text{P(2=6)} - \text{P(1=2=6)}$$



$$2D/N2 = \frac{36}{(50 \text{ V NZ})} \left\{ \frac{6}{4} \cdot \frac{6}{4} + \frac{6}{4} \cdot \frac{6}{4} = \frac{36}{5} \cdot \frac{36}{36} = \frac{3}{5} \right\}$$

$$72|2D = \frac{1}{2} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$$

a)
$$\frac{96}{100} \cdot \frac{95}{99} \cdot \frac{94}{99} = 0,8836...$$

C)
$$\frac{1}{200} = 0.8847...$$

 $\frac{q_{6}}{q_{6}} \cdot \frac{q_{7}}{q_{8}} = \frac{q_{4}}{q_{8}} = \frac{q_{6}}{q_{8}} \cdot \frac{q_{6}}{q_{8}} = \frac{q_{6}}{q_{8}} \cdot \frac{q_{6}}{q_{8}} = \frac{q_{6}}{q_{8}} = \frac{q_{6}}{q_{8}} \cdot \frac{q_{6}}{q_{8}} = \frac{q_{6}}{q_{8}} = \frac{q_{6}}{q$

2. cuicemi

jeur AB jsou mezduisle (=> P(AD)=P(A)P(B)

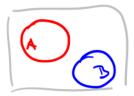
 $P(A \cup B_c) = P(A)P(B_c)$

 $P(\underline{\mathcal{D}}) = 1 - P(\underline{\mathcal{D}})$ $= P(A) - P(A) P(\underline{\mathcal{D}}) = P(A) (1 - P(\underline{\mathcal{D}}))$

ANB = A/(ANB) = INA

 $P(A^{c}) = 1 - P(A)$ $P(A^{c}) = 1 - P(A)$

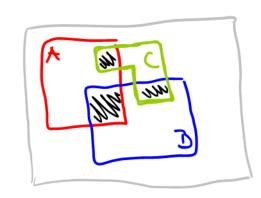
jeun mezavisle a disjumktmi



d: sjumkini(=)
$$(A \cap B) = \emptyset$$

mezchisle (=) $P(A \cap B) = P(A)P(D)$

$$P(\emptyset) = 0$$
 => molou, pro $P(A) = 0$ OR $P(B) = 0$



When
$$P(A)=0$$
 OR $P(D)=0$ OR $P(c)=0$

spano ze 4 encile... solo SC = 0,8 DC = 0,2

fillrozmačí { dolo spame jako spam ... SS = OP Tolo dobrých jako spam DS = 0,05

a)
$$0.8 \cdot 0.9 + 0.2 \cdot 0.07 = 0.73$$
 = 390 označeno spam

b)
$$\frac{0.2 \cdot 0.05}{0.73} = 0.01$$
 1% dosvých majli chysně spam

= 0,3 20 % spami neodliceno tiltrem

a)
$$\frac{0^{10+0^{1}}}{0^{10+0^{1}}} = 0^{1818}$$
 8290

$$P = \left(\frac{0^{1}0+0^{1}5}{0^{1}0}\right) * \left(\frac{0^{1}8+0^{1}}{0^{1}8}\right) = 0^{1} \cdot 186$$

9

 $O_{S} = O_{I}^{O}$ $A_{S} = O_{I} S$

$$P_{X}(k) = (1-p)^{k-1} = \left(\frac{1}{2}\right)^{k}$$

