METZA FEOPPIA AM: 3200 155 30 ONASA

0.04.21

(a) Ohoj o sej thatthoj thooj = Ou eine ohe of on forisely the chavahnen  $(6)_4 = 6$ .

Opisayle as  $A = \ll 1^2$  in  $4^2$  sup superviols now  $B = \approx 6$  a drag. PCB/A) = P(BA)(1). Cival  $P(A) = 6 \cdot 6 \cdot 6 \cdot 5 = \frac{5}{6}$ 

P(B) = 6.5.43 - 60 - 5 Coash BCA cyoule 50 (1) =>  $P(B|A) - \frac{216}{P(B)} - \frac{18}{5/18} - \frac{5.6}{3} - \frac{1}{3}$ 

(B) FORW C= 42 SCHIPPEN GHOLW OLDOTON P(CIA) = P(CA)

P(A)

ACI = 6.1.5.1+6.5.1:1 = 60 Aca P(AC) = 50

64

$$P(C|A) = \frac{60}{64} = \frac{6.60}{64.5} = \frac{1}{18}$$

aou, 22

 $\Delta = \ll \Delta \text{ ovard grinnya}$   $M = \ll \text{Hέτριο χείνηνα}$ ,  $A = \ll \text{To nould actogno}$   $\Delta = \ll \Delta \text{ ovard grinnya}$   $\Delta = \ll \text{To nould actogno}$   $\Delta = \ll \Delta \text{ ovard grinnya}$   $\Delta = \Delta \text{ ovard grinn$ 

Opifoune ων Α: = << Το πουδί ι οισιόχησε », μί = << Το πουδί ι χώρησε την πινιατα μετρια» Επειδή μαχνουμε το Ρ(ε') μέσοι σε πάθε τετράδα πουδιών δεν μηθρούμε να έπουμε

1 Suaro Arunnea (mari Sa onasse n nivera) oùte

3 μέτρια. Του μποφούμε να εχουμε ένα ή κανέιο μέτρια

gruniquoza, επομένως: PCS)= 1-(P(A, A2A3 A4) + P(A, A2A3 M4) + P(A2A, M3A4)+

+ P(A, U2 A, A) + P(M, A, A, A, A)=

=1-(1/6+4.1/2)=1-0,187=0,813=) P(3)=81,3%

aou, 24 Operforme con cube gomeron Ini = « Ecolog i >> uay Ouli = << (Fologies. P(Jn0) = 1/4 P(Jn1) = 1/4 P(Jn2) = 1/2 An'ra your naradabairous ou: P(OutolIn3)=1-€ P(Out1|In3)=€ ) P(OutolIn2)=0 P(Outs | In1) = 0 | P(Outs | In1) = 1 + P(Outo | In1) = E Proutalino)= & | Proutalino)= 0 / Proutolino= 1-6 a) o P(Out9) = P(Out9|In2) . P(In2) + P(Out2|In1) . P(In1) + + P(Out2(Ino) P(Ino) P(Ou+3)=(1-4) 1/2+0+6. 1/4 = 1-6 + 6 => P(Ou+3)=2-6 P(Out 1) = P(Out1) In3). P(In2) + P(out1 | In1) P(In1) + P(out1 | Ino) ·P(In  $= \underbrace{\epsilon}_{2} + \underbrace{1-\epsilon}_{4} + 0 \Rightarrow \underbrace{\epsilon+1}_{4} = \underbrace{P(Out1)}_{4}$ P(outo) = P(outo(In)) P(In2) + P(outo(In1).P(In1)+P(outo(Ino)) = 0+ € + 1-€ => [P(Outo)=1/4] (B) P(Inolout1) = P(Out1) Ino) P(Out1) = P(Outs | Ino) P(Ino) P(out1/Ino) P(Ino) + P(out1/In1) . P(In1) + P(out1/In2). P(In2)

P(In1/Out1) = P(Out1 NIn1) - P(Out1 | In1), P(In1) Prouts = P(Outl/In1) P(In1) P(Outs IIns). P(Ins)+P(Outs Ino), P(Ino)+P(Outs Ins), P(Ins)  $= (1-\epsilon) \cdot 1/4 \qquad \qquad = P(Intlout1) = 1-\epsilon$ (1-E) /4+0+E/2 PCIn & lout1) = P(Out1) In2) P(Outs) = PCOut1/In2). P(In2) P(Outline) P(In2)+ P(Outlin1). P(In1)+P(Outlin0) P(In0)  $\epsilon \frac{1}{2}$   $\Rightarrow$   $P(Inglout1) = 2\epsilon$ €/3 + 1-€ +0 OSH. 25 E 0, 0 = (2)9 (= 10,0 = (2)9 ug/ ( 1 = « 1 in som i gow o aighas) [2 = « 1 in saigha>> 13 = « NOIVEY STY EXCE CITYUS). FORW ENIONY SI = " TO MONTO nous' ège to aigha) you 'Sz = << To deiter nous ege original · P(S, IT, )=0,5 P(S, IT, )=0,5 P(S, IT, )=0,02 P(S, IT, )=0,02 P(S, | T3) = P(S, | T3) =0. (a) Migroupe the moderator day to harsia we exow TO origina he gegotion on eral porior exe so antho Ennsi or nearozneg to nowhi a exam to origina èver avefaprnzy yomane to P(S,S2/12)=P(S,1/2). (S2/12) => P(S, S2 | P2) = 0,02.0,02 => P(S, S2 | P2) = 4 10-4 (B) P(B)=2(Ti)P(SiSz | Ti)+P(Fi)P(SiSz | Ti) + P(SiSz | Ti) P(Ti). B = « Ta & nouso's evol rugaia fryapia' igow outhers

 · P(S, S,  T,) - P(S,  T,) · P(S,  T,) = 0,5 · 0,5 =0,25
 = P(S, S2/12) = 410-4 (and a)
 $P(S_1S_2 S_2)=0$ .
 · P(F) = 0,01.901 = 10-4, -P(F) = 0,1 .P(F) = 0,39.0,39 = 0,9801
 Apa PCB) = 0,25. P(F,) + 410"- PC5)+0.P(F3)
 P(B)=0,25.10"+4.10",0,1+0=> P(B)=6,5.10"
 (r) P([2 5 52) = P(5,52 [2) P([2)
 PCS, S2 [F2) PCF2) + PCS, S2 [F,) PCF,) +PCS, S2/F3) PCF3)
 - 4-10-4 b(ls)
4.10-4 P(E) + B, 25 P(E,) + O.P(E)
$= 4.10^{-4} \cdot 0.1 \qquad = 0.615 \Rightarrow P(f_2 S, S_2) = 61.5\%$
 4.10-4.0,1+0,25.10-4+0
 9.10.0,270,23.10 +0

