2011-104) sep-01. sunstat Bethyad sla P(A/B) = slh for A Solingat B Asjannal, B=virter A B P(A OB)  $P(A \cap B) = \frac{P(A \cap B)}{P(B)}$ R, = forsta 2,27) siden rod R2= anda - (/- $= \frac{P(R_1 \cap R_2)}{P(R_1)} - \frac{\frac{1}{3}}{\frac{1}{2}} = \frac{2}{3}$ Sollet P(Re (R) R-K V= P(T)9+(5/07)9+(A0T)9 = (TA 5) Act som "ir vira atfall = 000 de sex sidorna inte korten! = 0,950; = 10,97,0,240,10.03 = 0,963 POST OF THE PROPERTY OF

MANUEL DO THE SERVICE STATES

A - butterst konner från fassile A

E - Butterst konner från fassile A

E - BUTTERSTERNER FRÅN FASSILE A - butterlet räche mer än 10 Whomen P(T(A) = 995 Givet P(A) =0,5 P(71B)=0,97 P(B)=0,2 P(T/ C)=0,98 P(C) 20,3 a) P(T) 50%  $P(T) = P(T \cap A) + P(T \cap B) + P(T \cap C) =$ = {P(T/x)= P(T/A) = P(T/A) - P(A)}20 = P(T/A).P(A) + P(+1/3)-P(B) + P(T/C).P(C)= = 0,95.0,5 +0,97.0,2+0,98.03 = 0,963 Sannolite? PlA)=0,5 P(BUC)=0,5 52 P(7) 5 (0,95 +0,97)/2=0,96 Comer samo likt an A &

Mellan 0,95 och 8,98

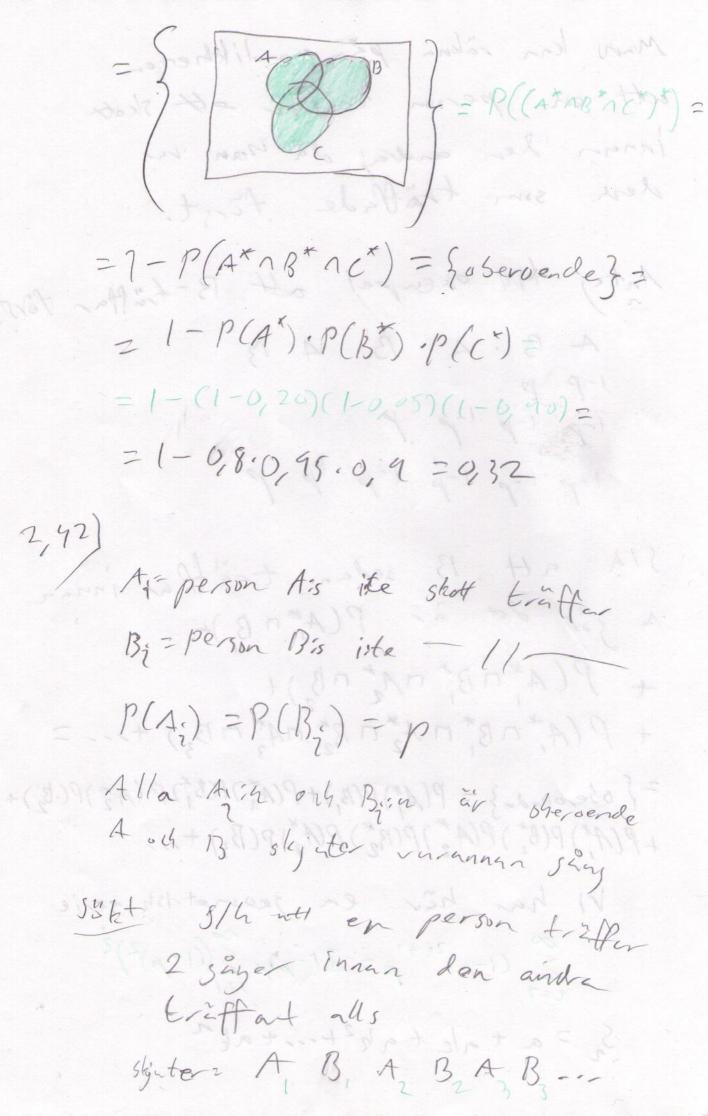
b) 55% 
$$t$$
  $P(A|T) = \frac{p(4 \land T)}{p(T)} = \frac{p(4 \land T)}{p(T)} = \frac{p(T|A) \cdot P(A)}{p(T)} = \frac{p(T|A) \cdot P(A)}{p(T)} = \frac{p(T|A) \cdot P(A)}{p(T|A) \cdot P(A)} = \frac{p(T|A) \cdot P(A)}{p(T|A) \cdot P(A) + p(T|B) \cdot p(B)} + p(T|C) \cdot p(C)}{p(T|A) \cdot p(A) + p(T|B) \cdot p(B)} = \frac{0,95 \cdot 0,5}{0,95 \cdot 0,57 \cdot 9,7 \cdot 9,7 \cdot 9,3} = 0.963$ 

9 solt 
$$P(A|T^*) = \frac{P(A \cap T^*)}{P(T^*)} = \frac{P(A \cap T^*)}{P(T^*)} = \frac{P(A \cap T^*)}{P(T^*)} = \frac{P(A \cap T^*)}{P(T^*)} = \frac{P(A \cap T^*)}{1 - P(T^*)} = \frac{P(A \cap T^*)}{1 - Q^{163}} = \frac{P(A \cap T^*)}{1 -$$

$$2 \frac{0,05.0,5}{0,036} = \frac{0,025}{0,036} = \frac{25}{36} \approx 0,676$$

= 92 + 905 + 910 -

P(A) = (our surpende) = P(A1B) = P(AB) A och 13 ober verde befinition: (=) P(A)-P(13) = P(AOB) P(T/A) P(A) + P(T/B) + P(T/C) - P(C) netinifla: Aoch B disjunkta 30.700 P(AnB) = 0 30-330+20-1 P(ABB) = P(A) + P(B) Rukna hemma 2,38 2,36) 3 steroende Rel: perin (N) 20200- P(A) 3(0,20 P(B) 20,05 Est/0 - P(C) = 0,16 Soilet P(minst ett fel) = = P(A 00 UC) = 000 =P(A)+P(B)+P(C)--P(AnB)-P(Anc)--P(BAC) + P(AnBAC) = = 92 + 905 + 910 --0,2.0,05 -0,2.0,10--0,05.0,00 + 0,20.00,05.0,10



Man kan räkna på sunnolikebreten att en person träffer ett skots Innan den andaj da han var den som træffade forst. Ante, All exempel att B-traffan forst, A B A B A B 1-p p 1-p 1-p p 1-p 1-p 7-p 1-p tp p 51h att 13 sedan traffar innan A sor det ar P(A\*nB,)+ + P(A, nB, nA, nB)+ + P(A,\* nB,\* nA,\* nB,\* nA,\* nB,) + --- = = { oberoende} = P(A\*)P(B;)+P(A\*)P(B\*)P(B\*)P(B\*)+ +P(A\*)P(B\*)P(A\*)P(B\*)P(A\*)P(B3)+,, VI har har en seomet ist serie 50 (1-p)2i+2 p=101-plp 5((1-p)2)2 Sn=ataletah2t...takn

$$k = (1-p)^{p}$$

$$k = (1-p)^{2}$$

$$S_{n+1} = a + ak + ak^{2} + \dots + ak^{n+1}$$

$$S_{n+1} - S_{n} = ak^{n+1} - (1)$$

$$kS_{n} = S_{n+1} - a - (2)$$

$$S_{n+1} = k \cdot S_{n} + a + ak^{1/2} + (2)$$

$$h : (7) = k \cdot S_{n} + a + ak^{1/2} + (2)$$

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$$h : (7) = k \cdot S_{n} +$$

2,28) P(A) 2 1/3 A-A vigne By C. - Sama lost of = 1358 P(U) = P(Eng\* n4\*) = 3 = 3 = 1+12 = P(C|B\*nA+).P(A\*nB\*)= = 7. P(B\*1A\*).P(A\*)=  $= 7 \cdot \frac{1}{2} p(A^*)^2$   $= 7 \cdot \frac{1}{2} (7 - \frac{1}{3})^2 1 \cdot \frac{1}{2} \cdot \frac{7}{3} = 7 \cdot \frac{1}{3} = \frac{1}{3}$ 

1 ( - p) = - 1 - ( - p) = - ( - p) = - [ - p - p] =

12-67 2-67