9/24/15 Lec 6 Anh 24)

Coneum

A CB
$$\Rightarrow$$
 P(a) < P(B) is only the if P(Ex) >0
but A CB \Rightarrow P(a) < P(B) is Almans the (see har)

$$(a+b+c)^n = \sum_{\substack{i+j+k=3\\ i\neq k}} (i,j,k) a^i b^j k^k$$

$$\left\{ 1 + 92 + \dots + 94 \right\} = \left\{ \begin{array}{c} h \\ h \end{array} \right\}$$

= P(ANG) = P(A)+P(AUB) ≥ O (P)

=> RA+RB) = RAUB)

P(AUG) = P(A) + P(B) - P(A)B) (The +)

More server of corring

Birthaly Problem = forger or responser. -) = (5)

Car least one pair of you she she body) = (i=1)

All fyor = P(one pir shows body) + P(one pris show body) + ... + P(25) show see long) 1- Add Light Calculation P(O Ai) = EP(Ac) (C) reall 10)=1-1(0) = 1 - Prove of you due soul boy In gent $\frac{365 l_3}{3659} = 25$? 4223= 0.19? 9260In genl all possible bodry Contiguestes for 25 jergle Tip to wins P(Hz krunj 14,) = 1/2 he say the knowledge of the curs of H, is informably willows to the P(Hz). "Khing or "Ling fin" or "being content on" is very yours "Pipe synthe" P(A (B) = P(A) if B is reframely irreduce Or if A al B are integerda! Ref first: P(AB) = P(B) or P(BA) = P(B)

AIBM Stark of raing or brewn Area) = AIBM Stark of Seens Responde of.

J, H) = P(H) P(H) and it jend A1, A2, A3, ... An it legender P(H, H) = P(H) P(H) P(j Ai) = The (Bi) proven laser "mloyderm rele" Chemlier de Mere. P(21 double 6" 4 24 nolls) = P(Idule 6'in 20 melor 2 dole 6 or 3 dula 6's or ... or 24 dale 6's) = P(1 dosle 6) + ... + P(2+ lade 6'3) (c) dors kun hon to do there (yes) P(0)-1- P(0) = 1- P(0 obell 6's 14 28 rolls) = P(not dels 6 fin rel () met dels 6 2" roll ()...

24 () nor dels 512 28 rolls) All se it nell by melo, mb = 1 - P(not dule six on a roll of no due) 29

Assure representations

29

Conollations = 1 - Prot a six () net a BN) 24 =1 - (P(hot a Sid) P(not a Sid)) 24 mologlissin rule Alassa =1-(5.5)84 = -49/4

apposite f rapilere: depelor P(A|B) + P(A) or P(AnB) + P(B) P(B) P(R64 line | rang onreside) + P(R64 laste)

P(lung cancer | smoker) > P(lung cance) × Guconditure prob's deputer "continue prob's"

A, B degin. A A, B Hepalet? (A) (B) POID = P(A) No. if B hypode, A world in him him happen! P(AMB) = P(A) P(B)

the only if A, B him prob O.
so anythe its not omine, dijour => depulse. $= P(\phi) = 0 = R\theta)P(\theta)$ $\geq 0 \geq 0$

If deples => dispiro? (Au)

Example of Han riderlin.

P(H/T) = P(H)

1 0 ≠ ½ > depulu absent!

P(Hz/Ti) = P(Hz) Yes (Hagsher)

Giles. ..

