Mokematical det of probability:

Let A we an event and s be the sample spoke. Then the probability offen event A is denoted by P(A).

A is defined or

where AES.

Total ro. of possible outcomes.

exismatic treeny of probability.

005PB761

(P(9) = 0

(10) P(S) = 1

(P(N) = 1-PM) . is pay +PAY =1.

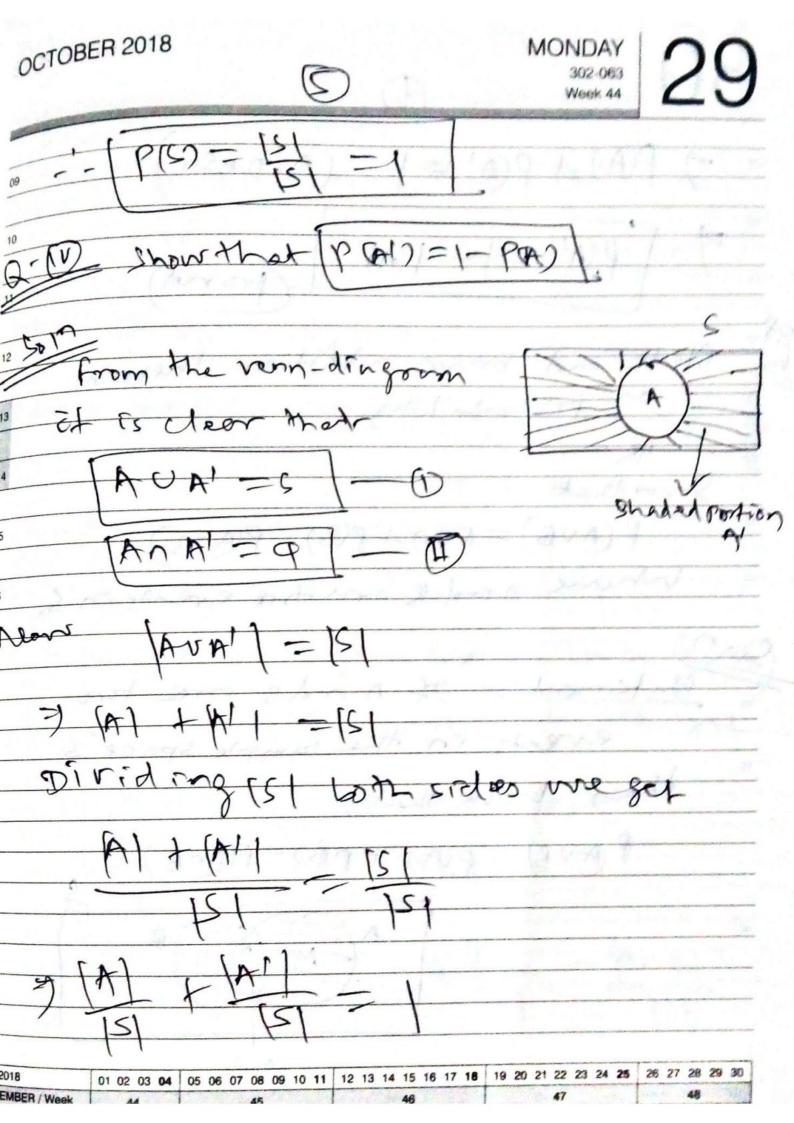
show that 0 = PM = 1.

Where A's on event in s.

ER / Week

Dividing (s) both sides mages Week 43 151 = D 151 = 151 of A Ton employ Sex Te A + q. Dirding [51 both sides magel 151 > 1 7 (PO) 70 7 0 (PM) 3 combining Dand meget from 0 and 0 we can writer 10 C 8 (Brored)

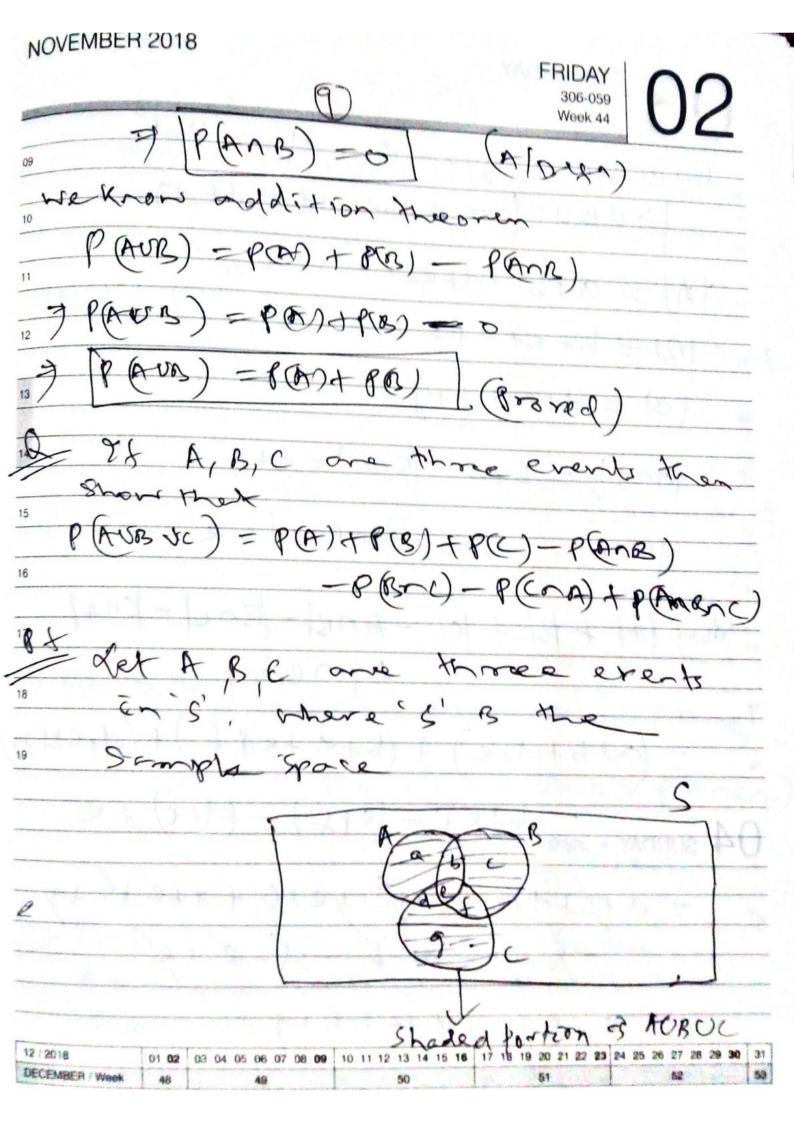
OBER SO18 SATURDAY 300-065 Week 43 of D show that p(q)=0 son me know from set theory, empty Let is subset of avery 13 -0 A S S >0. Dividing [5] both sides was Show that P(S) =1 SUNDAY • 301-064 Sor Since Sisthe 9+ consists of all poxis out comes 00 04 05 05 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29



30 TUESDAY 303-062 Week 44 (Moreson) -) P(A) + P(A')=1 (per and) = 1 [P(A')=1- P(A) States and prove addition theorem probability. P(AUB) = P(M) + P(B) - P(AUB) 16 Statement: If A and B over two vents in the sample space s' P(AVB) = P(A) + P(B) - P(A)B) 01 40 M3 04 05 06 07 06 00 10 11 12 13 14 15 16 17 16 19 20 21 22 22 24 25 26 27 26

= m tnx "About 1/41 +(13) - 1Ans = (m +n) + (m +n) 16-- (AUB) = A1 HB] - ANB) since 's' is the sample space (\$1 Diriding 151 both sides cre & |AUB| = |A| + |B| - |Ang| [A] + B - [m]

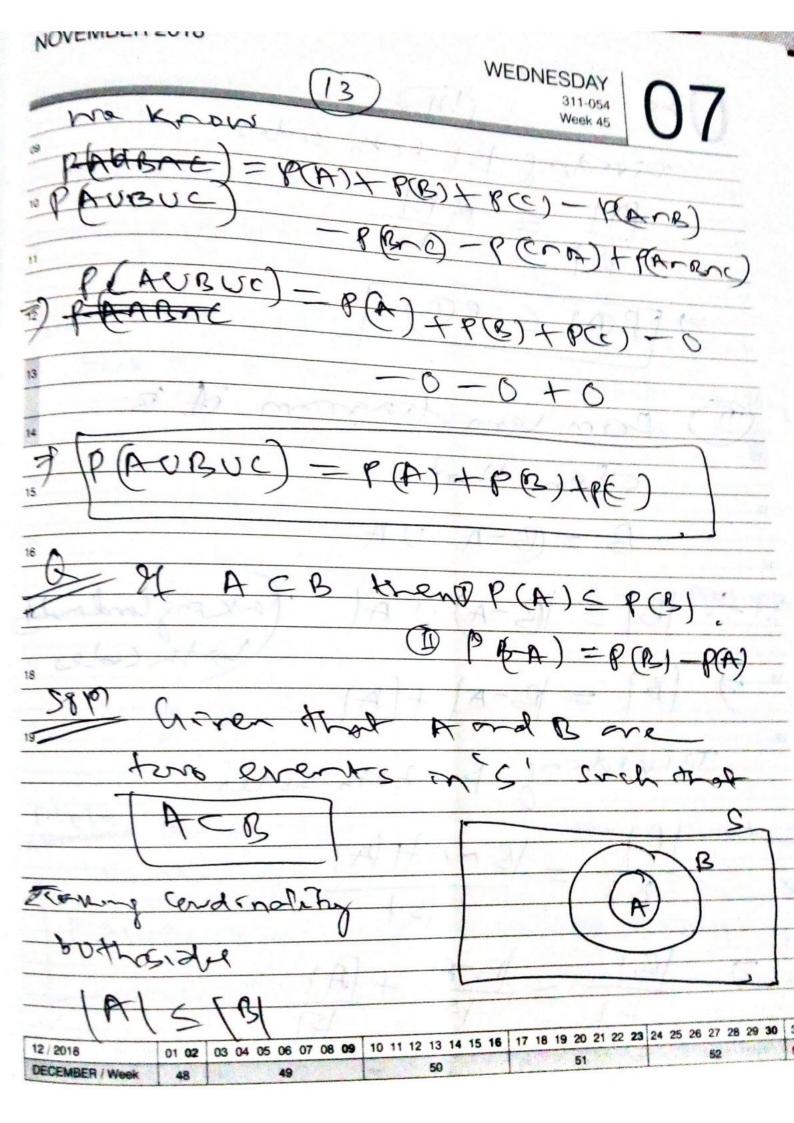
THURSDAY " P(AUB) = prox) + pros) orbien is called addition the me probability. Is If A and B are mutually exclosing events. How show that P(AUB) = P(A) + P(B) enchere · [Ans] = [9] :101 | Ang! =0 Dividing (St both sides (Ang)



307-058 Week 44 ALOS HADON from venn diagram if II clear that AVBUC = athtett teff to 'A = atb tdte 131 = b+ c+e+f (c) = drettig (Ans) = bte (Bnc) = etf |cnal = de |anonc|=e How (A) + 131 + 101 - 100 - 10 = (atbidie) + (bie teff) + (dreigh). 14 SUNDAY . 308-057 (6+0) - (2+4) - (4+0) + e = attot dre + by tets + dre 18 19 - 5-p-k-X-X-X-X 01 02 00 04 05 06 07 08 08 10 11 12 13 14

NOVEMBER 2018			NDAY 309-056 Week 45	05
AVBUC :	= 141+181+14	- Ang -	Brid-	(n)
Dividing	[S] both	sides y	es &	snc
12 AUBUC =	TA) + 131 +1	t (Ano	B/-(6	sod-foral
13	*	[5]	120	4-1-1
15 The state of th	A) +(B) 151 (5)	+14 -	- Ang	1 - (Rod)
16	5 1	[CNA]	+/4	rosne)
7 Plavauct _	2(0)	-A		121
7 P(AUBUC) -		7-81/-	H BAR	The second second
	- P(Src)			Parsn
	2 = 4		March	
enchagives	ore three	e mut	ually d dh	γ
P(AUROE) -	= PA) + P(5)	FPC)		
2/2018 01 02 03 04 05 06 07 ECEMBER/Week 48 49	7 08 00 10 11 12 13 14 15	91		8 8

TUESDAY hiven that A, B, mu trally enclusive 10 Ce Ans = 11 12 13 14 15 (AnBnc) =



Diredong 151 both sides 10 11 (A) & P (B) B = (B-A) UA Lots Hode B = B-A U A = 12-A)+ Dividing 1 2072 sides. 1B-AHAI 05 06 07 08 09 10 11 12 13 14 15 16 17 18 26 27 28 29 3 BER / Week 19 20 21 22 23 24 25

