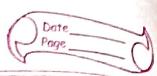


(b)  $n(H \cup C') = 30 + 150 + 40 = 220$ 



	0
(C) One of the 240 pavengers is chosen at	andom
Probability that this passenger	
(i) Phire o can) = favourable outcomes =	30+150 240
Exclusion of the contract of t	180 = 0.75
(ii) P (9s on a holiday, and hires a cour) = 150 = 0.625	
(da	Carrie of the
(a) Two of the harrows is all a serial and	
Two of the hausengers are chosen at random.	
(1) P(they are both on holiday) = (30+150)	<u>() (173)</u> (239)
= 180 179	OR
240: 1239 35 (1)	97 events are
Peyon1 Pauon2	Prodependent.
$= 6.75 \times 0.74 = 0.555$	= 180 <u>.180</u> =0.5 240 240 =



(ii) exactly one of the two passengers is on holiday

$$= \left(\frac{180}{240}\right) \cdot \left(\frac{60}{240}\right) = 0.375$$

ontholiday no

not on holrday

two panengers are chosen at random from there on holiday.

E= Find the probability that they both hire a car!

P(F)= favourable outcomes = 30+150 150 150 total outcomes 30+150 30+150

$$=$$
  $(150)$   $(150)$   $(180)$ 

₩ 0.6889



$$\Rightarrow$$
  $n(RUF) = n(R) + n(F) - n(RNF)$ 

$$\Rightarrow 17 = 13+11 - n(RNF)$$

$$\Rightarrow -h(RnF) = 1 + -(24)$$

$$\Rightarrow n(RnF) = 7$$

$$\Rightarrow$$
  $n(RNF) = 7$ 





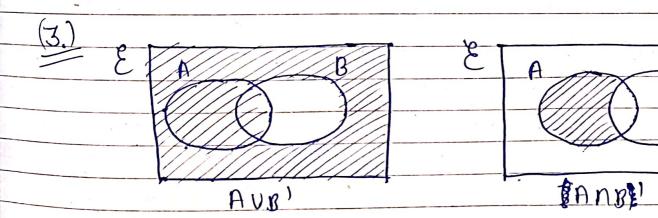
(i) n (RNF) = 7

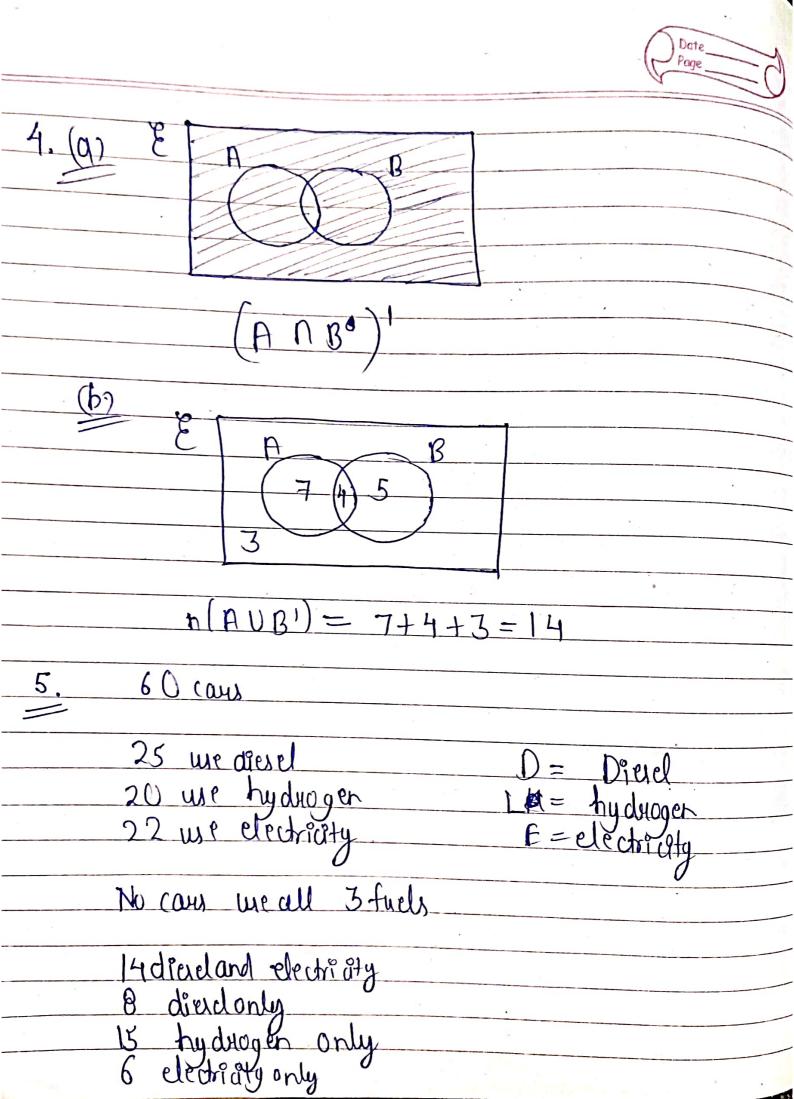
(ii) 
$$n(R'NF) = (4+3)-3 = 4$$

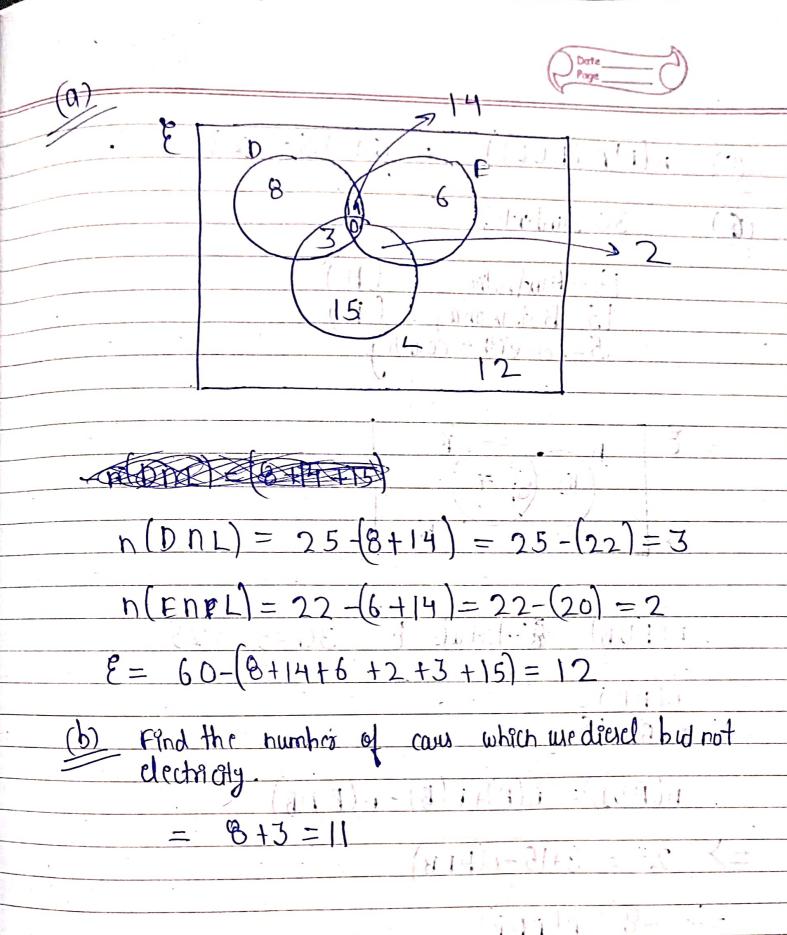
A student who like engly in chosen at random

Find probability that he also like football

$$P(E) = 7 = 0.4615$$







ये जीवामानिक

Date Page

(c) 
$$n(D'n(EUL)) = 6+15=12$$

$$n(B)=15$$

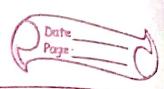
$$n(AUB) = n(A) + n(B) - n(ADB)$$

$$\Rightarrow$$
 25 = 18+15-n(ANB)

$$\Rightarrow$$
  $-8=-n(nng)$ 

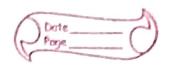


n (students who have visited australia but not : Botswana) 10



8. 
$$24 \text{ students}, 21 = \text{footballe} (F)$$
 $E = 1$ 
 $E$ 

no of students who like both football and swimming is 13.



Q=2,4,6,8,109, R=45,10,15,203, 15 EP, n(P)=1 and Png=. 5,10,20 (Anc) nB1 (Bn (Auc)) AUBUC)



