Date > 27/02/20 Trobability Assignment (1,1)(1,2)(1,3)(1,4)(1,5)(1,6) 9-1 of Two dies rolled at once & = P (sum of No being rean) x P (one of the clie shows 6) 18 X <u>L</u> 36 36 3.2 & Two dice solled at once & P (Sun of Numbers being } = 15 less than 7 3 = 36 Q.3 A fail toes three times Total Number of fau outcomes = 8 = 21 given that observed atleast one head . PROB (at feast two head) = 4 A & B Harried Couple with two kids. f. 0 = { 9B, 99, B9} one of them is Girl.

P(other Being quiel) = (1) Aug

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ren that conditional. To in and Marginal Prob Rainy - tof Days -NR = 3 P (Heavy Traffic/Rouny) = 1/2 P (Heavy Traffic / Not Rainy) = 4 Rainy 1/2

NHT 1/2

AUT 0.25

NR. (8)

NHT 4

AUT 0.75

AUT 0.75

AUT 0.75

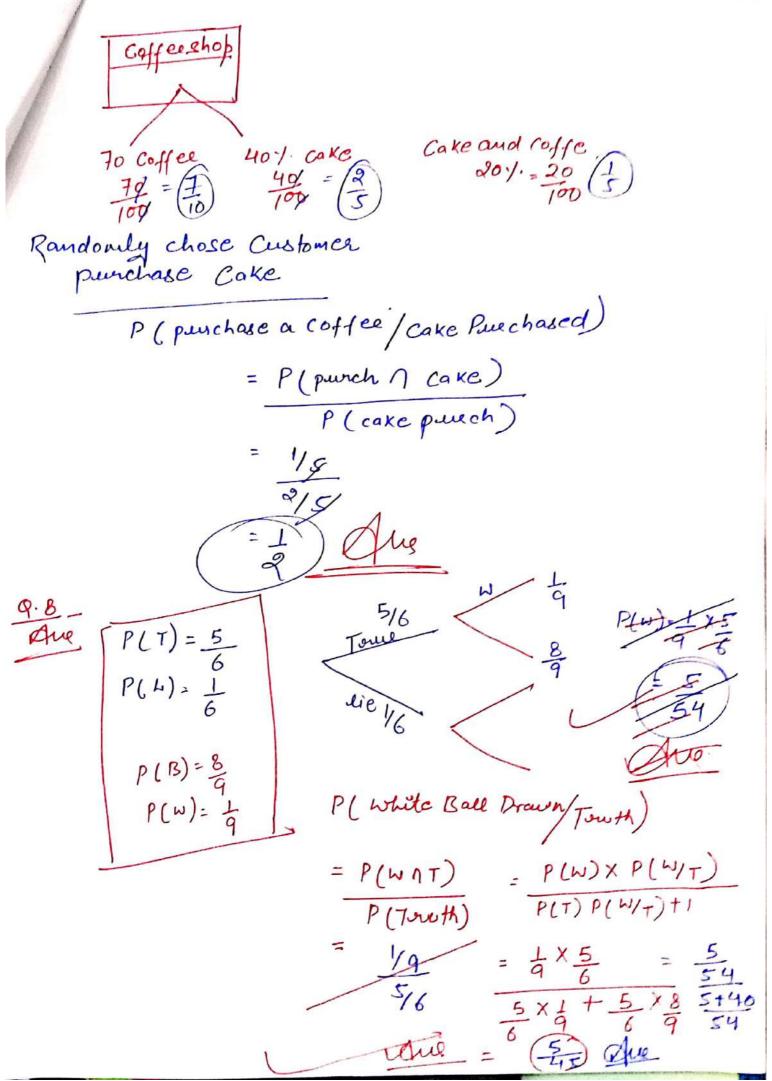
AUT 0.75

AUT 7/8 @ prob Not Raining and thre is heavy traffic of of am = 3×1×0,45 = 0,66 X 0,25 X 0.75 0.132 Du 6 Prob (4 am late) 3 X T X 0, 32 + 3 X 3 X T = 12 + 0.25 + 0.50 + 61 = 12 + 0.25 to 150 + 16 = 0.083 + 0.041 + 0.0416 + 0.0625 = 0.2281 + Que

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ren that I varived late at work = P(LAW) Conditional Prob Q.5 P (Rainy /LAW) = P (LAW / Rainy) P (LAN) = P(LAW) N P(Rainy) = 7 x 1 x 1 x 1 x 1 x 0.52 = 12 + 25 6 = 12 + 25 6 = 1+ 1 12 6X4 = 12 [1+2] => 12 (3) = 24 | Ay. 1 10= +XI + XI

A + @ Lands heads up = 2x1 + 1 = 2+3 P(F/H) = ? P(F/H) = P(FNH) P(H) = P(F) × P(H/F) P(H) = 1X1 2 × 1 + 1× 1



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P(Actually 6/Towth) =
$$P(6 \wedge T)$$

P(6/T) = $P(6) \times (T/6)$

P(T)

P(6/T) = $P(6) \times (T/6)$

P(T)

 $= \frac{1}{6} \times \frac{4}{5}$
 $= \frac{4}{30} = \frac{4}{30} = \frac{4}{9}$

Aug. P(M) = $\frac{1}{10}$

P(M)

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