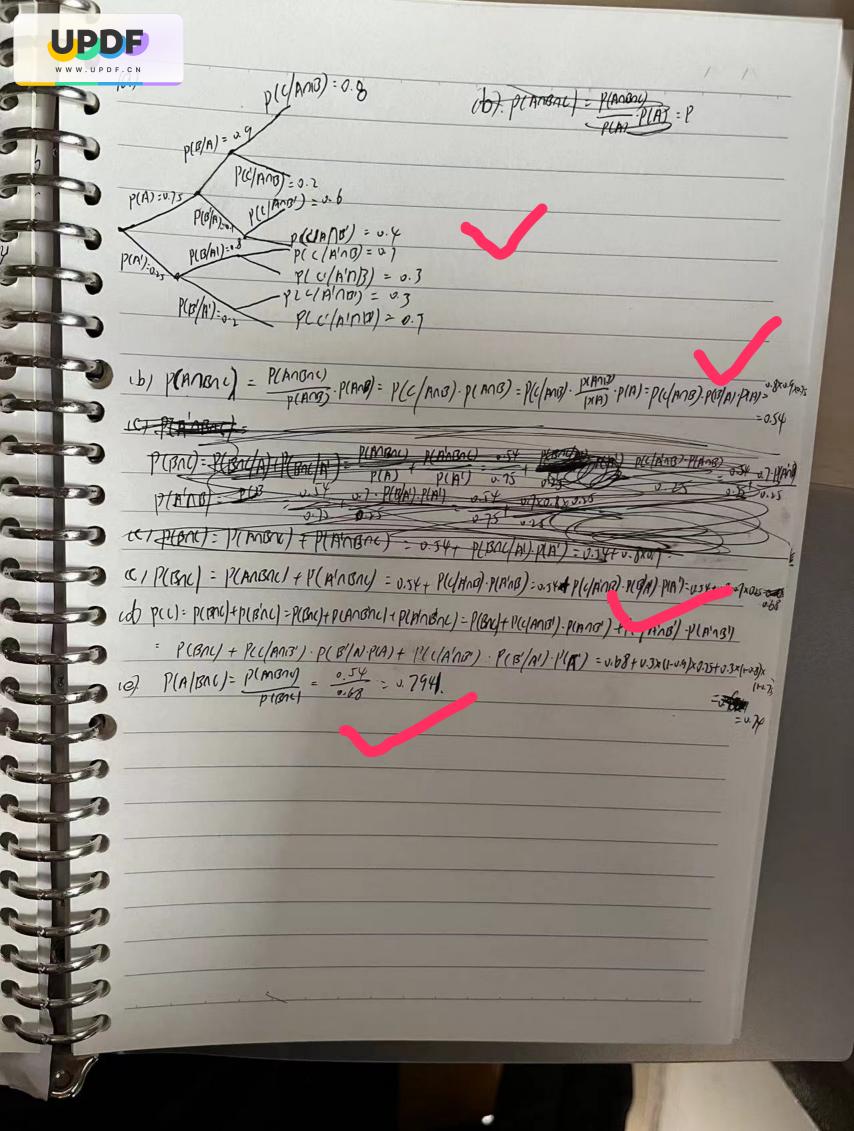
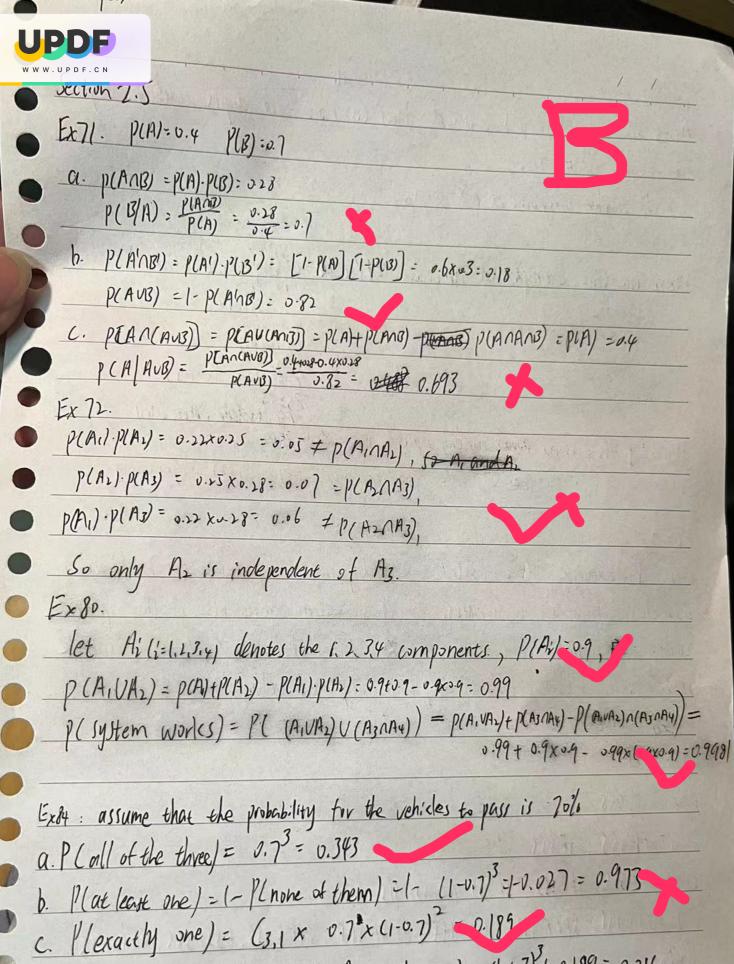
P(A|B) = RD P(Ano), the probability of the even A, knowing that B # happened. P(B/A) = P(MO), the probability of even B, knowing that A happen ded Because a most of Americans are tall and the most popular sport in USA is Rugby So P(A) YPRO), that is: P(B/B) bigger than P(A/B) Exob a. 11 (medium, long sleeved, print shirt) = 0.05 b. p(medium, print): 0.07 tag 20.12 C. P(Short) = 0.04+0.0)+0.05+0.08+0.07+0.02+0.03+0.07+0.58=0.56 P(long) = 1-P(short) = 0.44 d. p(medium) = 0.08tun/tu/2+ alturotun/= 0.49 P(print): 0.02 to,0] + 0.02 + 0.02 + 0.05 + 0.02 = 0.25 p(mechin m, short, pland) = 0.08 e. He freducing planet, pland) = 0.04+2.08+003 = 015 P (medium short, pland) = P(medium, short, pland) = 0.08 = 8 f. p(medium, plaid) = 0.1 + 0.8 = 0.18 p(medium, plaid, long) = s. 1 P(short | median pland) = primedium, short, pland) = as8 = 4 9 P(long/medium plaid) = P(medium, plaid, wing) = 218 = -Ex58. that is: P(AUB) ne) P(Anc) + P(Bnc) - P(ANB) 11) So: PLAVBING = PLANG+PLBACI-PLANERY 12/ So Planer = plane +plane)-planery. given that: (AUB) nc > (Anc) N (Bnc), sin(which aggrals to the right side of 2) Ex 63. (9)





d Plat most one): [Gone of them) + [(exactly one) = (1-0.7) + 0.199 = 0.216 Section 3.1

Ex4. 8

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90210 Here are some examples of American 219 code: (Bevely Hills, california) (New York) (Chicago, illinonia) 7.8 Austin, Texas) Basically, there is no our on or any zip code with four zero. So x= 2, 3, 4, 5 for the zip code 10001, 60601, 7870, 85225 exectively. Ext No. For example, if to tossed repeatedty repeatedly until its hard occurs, then this expriment terminates. In this expriment, if the experiment terminates within 3 tosses, then X=0, otherwise X=1. The sample space is infinite but the X and has only two value. Ex8. Y=3: 555 Y=4: FSSS Y=J: 1=555, JF555 Y=6: FFFSSS, SFFSSS, FSFSSS, FFSSSS, FFSSSS Y=7: FFFFIST, SEPFIST, FSFFUS, FFSFUS, SIFFUS, FISFISS, SFSFUS Ex/o. 01-1=0,1,2,3,4,5,6,7,8,9,10 b the possible value of & is -4-3-2-1012



C. V= 0, 1, 2, 3, 4, 5, 6 d. 2=0.1.2 Section). L Ex 12. a. P(450) = 0.05+0.1+0.12+0.14+0.25+0.17=0.82 b. Plane Ple (7/55+) = 1-P(1/500) = 0.18 C. if is the first person on the standby lis that means y 649, p(y(49)= 0.05+0.1+0.12+0.14+0.15=0.82 it is the third person on the standby lift, that means 454 9/= XE+7. P14547) = 0.05+01+412 = 0.27 Ex23 a. p(x=2)= E(1) (c1) = 0.19-0.06- 0.13 0.67-039 -XXX--XX) (Xb. p603) = F(b)-F(3)=1-239-0.61 1 P(2:X:0): 1751-14 pox=2) = f(25xc3) - f(15xc2) = v.67 v-34 = v.39-0.19=0.2 P(X73) = F(65X) - F(35X4)=1-0.67=0.33 P(25X55) = F(45x5)-F(15x(2) = 097-019=0.78 P(24xcs) = (42xcs) = (42xc 0.78-0-2-(297-498)-017 Ex 25. Y: D. L. 2, J. . -p(y)=p(x=y) p(0) =p(Y=0) = P p(1)=p(Y=1/= (1-p)p p(2)=p(1=)=(1-p)2p p(h) = p(y=n) = (1-p)p