جز)	, (ġ) 	P(A(c=0) = 0.28 = 0.7 = 0.7 = 0.420 = 0.096 = 0.014 = 0.77 = 0.03
		P(8 C=0) = 0.08 0.025 0.03 $P(8 C=0) = 0.080 0.080 0.54 0.05$ $0.320 0.080 0.54 0.01$
		0.400 P(A=01C=0): 1-0.7:0.3
		P(A, 81C=0) = 0.056 , 0.14 P(B=01c-0) = 1-0.2=0.8
		0,40 P(A=1,8=01c=0) = 0.24/0.4 = 0.56
	ΤĊ	7(A)C.) - 1770-2
	ر في	P(A(C=1) = 0.17+0.03 = 0.5 P(A=0(C=1)=0.5 P(A=0, R=0, C=0)=0.0024.
		P(B=0 (czi): a. 9
		P(B(C=1) = 0.06 = 0.1 . P(A=1, B=0(C=1)/2 0.27/0.60 = 0.45
	• •	$P(A,B C=1) = \frac{0.03}{0.06} = 0.05$
	(د)	No. 11 Acres 10 Acres
	رڊي.	Yes widnesdy indoording the P(A(C=0).P(B(C=0) = P(AB(C=0)
		18. A CAD - P(BLC)-1(AMIC) 0:7 = 0:7=0.7=0.14. for all case.
		[res conditionally]
	(4)	P(A) = 0.500 . A=1
		P(B) = 0.420 P(B)=0.14 B=1 P(B)0 = 0.86
		P(A,B)= 0.086 A=B=1. P(A=0.8~0)= 0.366
		P(A=1,B=0) = 0.494
	(0)	((A,D,B=1)= 0,054)
		· · · · · · · · · · · · · · · · · · ·
		Not no Dependent. bold for all compos of A, B
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		www.septemberloathec.com
		www.supremounconcer.com

(3) (a) (CG)= 8(G=0)= 2/8 = 1/4 (8(G=4) = 3/4	
(×(C) → Pitota):	
$P(0=0 G=0) = 0 \qquad P(A=0 G=0) = 1 \qquad D(C=0 G=0) = 1h$ $P(0=1 G=0) = 1 \qquad P(A=0 G=1) = 1h \qquad C=0 G=1 = 1h$ $P(0=0 G=0) = 0 \qquad P(A=0 G=0) = 0 \qquad C=0 G=0 = 1h$ $P(0=0 G=0) = 0 \qquad C=0 G=0 = 1h$ $P(0=0 G=0) = 0 \qquad C=0 G=0 = 1h$ $P(0=0 G=0) = 0 \qquad C=0 G=0 = 1h$	
(301) (400) 1 1 Country in Greyoli (800) (401) 2/3.	
(b) (6.0) 160-0 (6.0) ((9-1(5.0) P(C=0) 420) P(A-1(6.0)	
2 Vy. 0.1. 40.0	
P(Gol) P(0:201921) P(golf an) P(coolan) P(Anl (Gol)).	
2 3/4 2 . 5 . 7 . 2	
Gal La samle 9	
1(4,0) 1(0,1(4,0) 1(12,1(4,0)) P(C-1(4,0)) P(A-1(4,0))	
P(G-1) P(0-19-1) P(B-114-1) P(C-114-1) P(A-114-1)	
G = 1.76 = 0.1.76 =	
sanh 10. [4.1]	
P(0=1(5-0)=1/4 P(A=0(6-0)=3/4 P(B=1(6-0)=3/4 P(0=1(5-0)=3/4 P(A=1(5-0)=1/4 P(B=1(6-0)=3/4 P(0=0(6-0)=0)=4/2 P(A=0(6-0)=1/4 P(B=1(6-0)=3/4	
P(0-015-1)= 4/8 P(A-016-P) = 3/8 P(B-016-1)=5/8 P(B-016-1)=5/8	
$01 c_{22} 19 \times 12$	www.septemberleather.com

(G-0) P(0-016-0) P(0-1/9-0) P(C-019-0) P(A=1/9-0) = 2/8. 44. 3/4. 42. 1/9 = 0.00586 P(G. 1) P(020/421) P(B21/421) P(C20/421) P(A21/421) -1/2:1/2:1/2:3/4.63:0:0527 for same 9, G,>60. 7 G21. P(G-10) 1(0=1 19-10) P(B=1 (40) P(B=1 19-0) P(A=1 140) = 2/8-3/4-3/4-1/4 =0.0176 P(G=1)P(O=1/6=1) 1(g=1/6=1) P(C=1/6=1) 1(A=1/6=1 = 1/2 3/8: 1/2 3/9 6/8 = 00527 For sample 10: 9:740 - 7 / 921

$$(a) \frac{m}{\prod_{i=1}^{n} P(x^{(i)}, y^{(i)})} = \frac{m}{\prod_{i=1}^{n} P(y^{(i)}) \cdot P(x^{(i)}|y^{(i)})}$$

$$= \prod_{i=1}^{m} \left\{ 0 \frac{1(y^{(i)}=0)}{(1-\theta_0)} \frac{1(y^{(i)}=1)}{\prod_{j=1}^{m} \left(\prod_{k=1}^{m} \theta_{0,k|y=0} \right) \frac{1(x_j^{(i)}=k,y^{(i)}=0)}{\prod_{k=1}^{m} \theta_{0,k|y=0}} \right\} \frac{1(x_j^{(i)}=s,y^{(i)}=0)}{\prod_{k=1}^{m} \left(\prod_{k=1}^{m} \theta_{0,k|y=0} \right) \frac{1(x_j^{(i)}=s,y^{(i)}=0)}{\prod_{k=1}^{m} \theta_{0,k|y=0}}$$

(b)
$$\log ((a)) = \int_{a}^{b} |[y^{(i)}]| \log (1-\theta_0) + [[y^{(i)}]] \log \theta_0$$

$$+ \int_{a}^{b} \int_{a}^{b} |[x^{(i)}]| \log (1-\theta_0) + [[y^{(i)}]] \log \theta_0$$

$$+ \int_{a}^{b} \int_{a}^{b} |[x^{(i)}]| \log (1-\theta_0) + [[y^{(i)}]] \log \theta_0$$

$$+ \int_{a}^{b} \int_{a}^{b} |[x^{(i)}]| \log (1-\theta_0) + [[y^{(i)}]] \log \theta_0$$

$$+ \int_{a}^{b} \int_{a}^{b} |[x^{(i)}]| \log (1-\theta_0) + [[y^{(i)}]] \log \theta_0$$

$$+ \int_{a}^{b} \int_{a}^{b} |[x^{(i)}]| \log (1-\theta_0) + [[y^{(i)}]] \log \theta_0$$

$$+ \int_{a}^{b} \int_{a}^{b} |[x^{(i)}]| \log (1-\theta_0) + [[y^{(i)}]] \log \theta_0$$

$$+ \int_{a}^{b} \int_{a}^{b} |[x^{(i)}]| \log (1-\theta_0) + [[y^{(i)}]] \log \theta_0$$

$$+ \int_{a}^{b} \int_{a}^{b} |[x^{(i)}]| \log (1-\theta_0) + [[y^{(i)}]] \log \theta_0$$

$$+ \int_{a}^{b} \int_{a}^{b} |[x^{(i)}]| \log (1-\theta_0) + [[y^{(i)}]] \log \theta_0$$

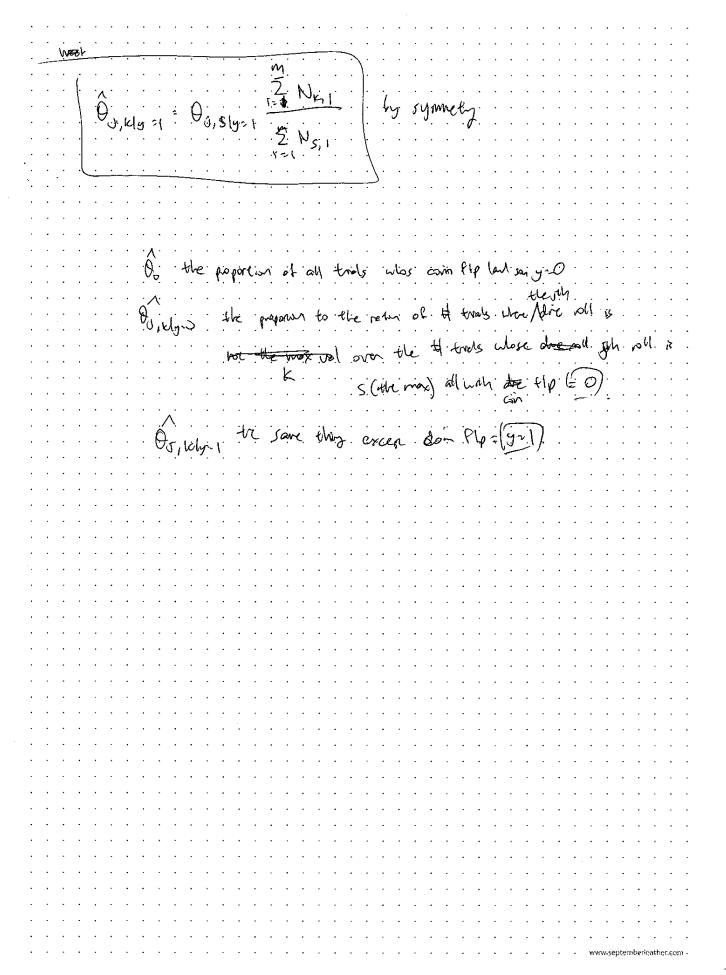
$$\frac{\partial \rho}{\partial s_{j,k}} = \frac{m}{2} \frac{n}{\sqrt{N_{s}N_{s}}} + \frac{N_{so}}{\sqrt{N_{s}N_{s}}} + \frac{N_{so}}{\sqrt{N_{s}N_{s}}} = 0$$

$$\frac{d\rho}{ds_{j,k}} = \frac{m}{2} \frac{n}{\sqrt{N_{s}N_{s}}} + \frac{N_{so}}{\sqrt{N_{s}N_{s}}} + \frac{N_{so}}{\sqrt{N_{s}N_{s}}} = 0$$

$$\frac{m}{2} \frac{n}{\sqrt{N_{s}N_{s}}} + \frac{N_{so}}{\sqrt{N_{s}N_{s}}} + \frac{N_{so}}{\sqrt{N_{s}N_{s}}} = 0$$

$$\frac{m}{2} \frac{n}{\sqrt{N_{s}N_{s}}} + \frac{N_{so}}{\sqrt{N_{s}N_{s}}} + \frac{N_{so}}{\sqrt{N_{s}N_{s}}} = 0$$

$$\frac{m}{2} \frac{n}{\sqrt{N_{s}N_{s}}} + \frac{n}{\sqrt{N_{s}N_{s}}} + \frac{n}{\sqrt{N_{s}N_{s}}} + \frac{n}{\sqrt{N_{s}N_{s}}}}$$



 $f_{xy}(x,y)_{\tau}$ exp $\left\{\frac{1}{2(1-p_{xy})}\left(\frac{x-m_1}{\sigma_1}\right)^2-2/m_1\left(\frac{x-m_1}{\sigma_1}\right)\left(\frac{y-m_1}{\sigma_1}\right)+\left(\frac{y-m_1}{\sigma_1}\right)^2\right\}$ 210,02 1172 adisc 1×10,00 7. [x] M. [C] (2-yu) 7 2 - (2M) 7. (x-cy) (xc) - 2 pxy (xc,) (y-c)

(d) \(\frac{7}{2}\)	<u>; </u>	
	Xi, Xi are independen	
· · · · · · · · · · · · · · · · · · ·	E(X,X): E(X) E[X] E	$\frac{1}{2}\int\int x_1 x_2 P(x_1,x_2)$
		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	COV[x,,x;]- E[x,x]- E(x,)	E(X,)
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