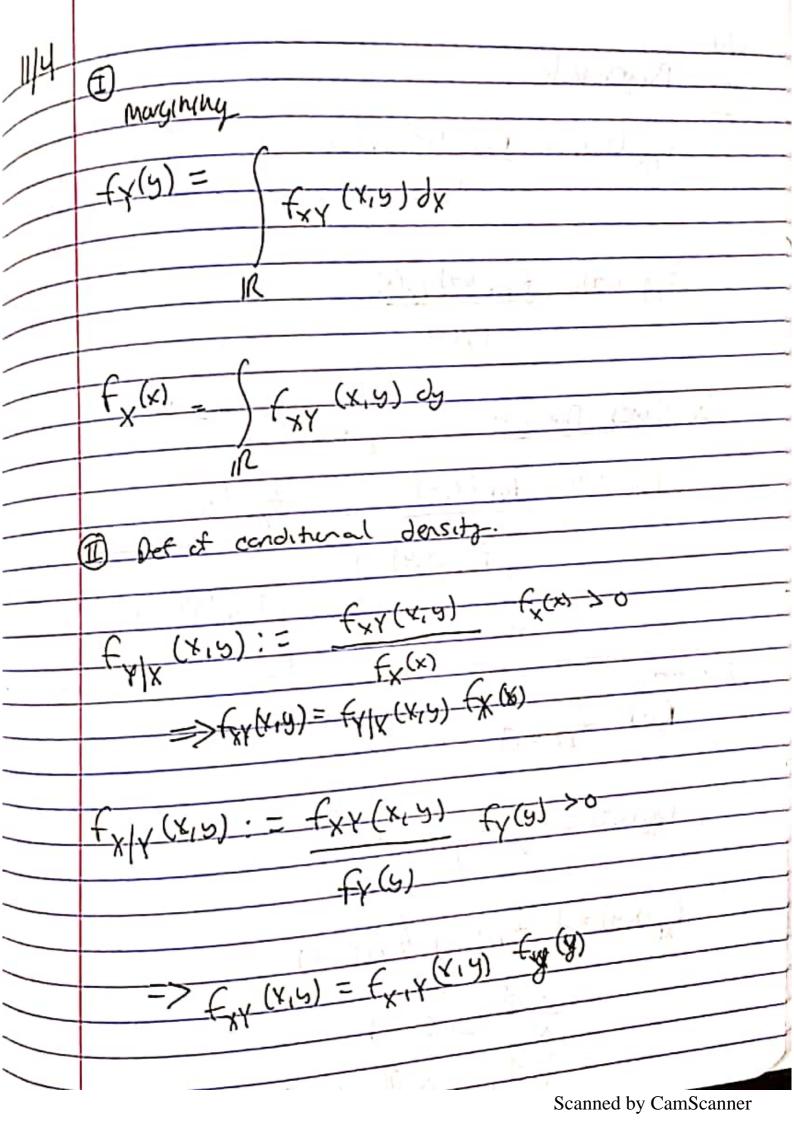
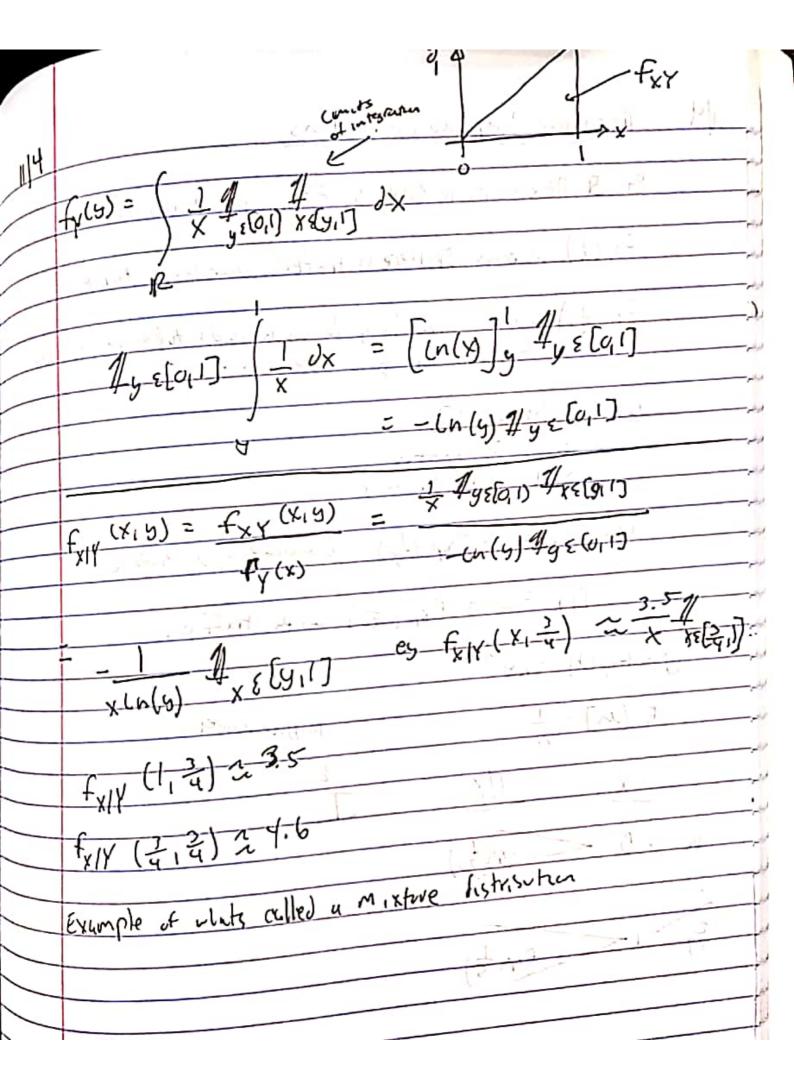


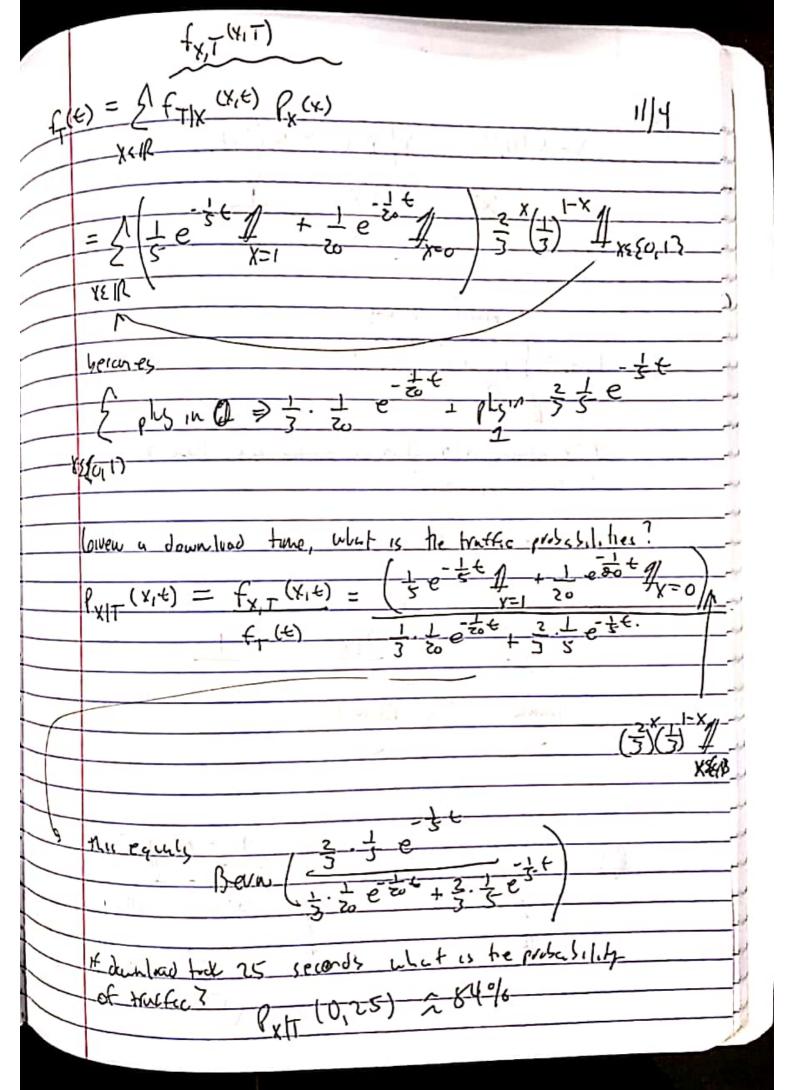
Scanned by CamScanner



ula	
-11/4-	Bayes Rule
(111)	
	$f_{X}(x,y) = f_{X}(x,y)f_{Y}(y)$
	f _X (x)
	fx/x(x,5)= fx/x(x,5) fx(x)
	Fy(9)
	The used
<u> </u>	Bayes Theorem [myst not be used]
	fy x (x,y) = fxy (x,y) = fxy (x,y) fy (b)
) fxy (x,4) dy (fxxy (x,4) fy(5) dy.
	R
(X unit	orm)
	£(x) = 1 x \ \(\x \)
	fylk (x,y) = 1 1 y & (0,x)
	X y E (OIX)
	Fx (x,y) = 1 4 x E(0,x) 4 x E(0,1)
	= 1: 40 = y < x < 1
	= 1 1 y & [0,1] 1 x & [y,1]



5.	
114	Mixtue and Compound distributions
	ey It here is no internet traffic, durn loads take
4	
	Exp(+) seconds. It were is truffig dunloads take
	Ex(to) seconds. How long do denlocads take in serval?
	let X ~ Berner 11: (3)
	X=1 => no truffic
	let T/X = 1 ~ Exp (=) Juvalia Jul 10 Huffic
	T/X = 0 n Exp(tw) with truffic.
V (2) 12	Exp(x) = /e > 4
t	[M] = 1 mixture model
	MIXIONE .
	X TIX I
h	$0 \qquad \qquad$
	all the street of the street
1	1- Ex/(-E)



1	TIN-TIX
1/4	(1) (18)
	X~ U(0,1), Y X=x ~ U(0,x)
	X YX Y
1000	2
	mwel mixing
	fy(5)=)-fy(x(5)-fx(x)-dx
	If he mixing diffisher is another in the V
J.d	culled compound?
	X- Gamma (d, B)
A 2 2	YX=x~ Passon (x)
	X Y X
1	
	banna Poisson (x)
45.8	
	A (Y - Y ,)
	X X X X X X X X X X X X X X X X X X X
J	y EIND
	Pa XX-1 e Just
	(1(8)

