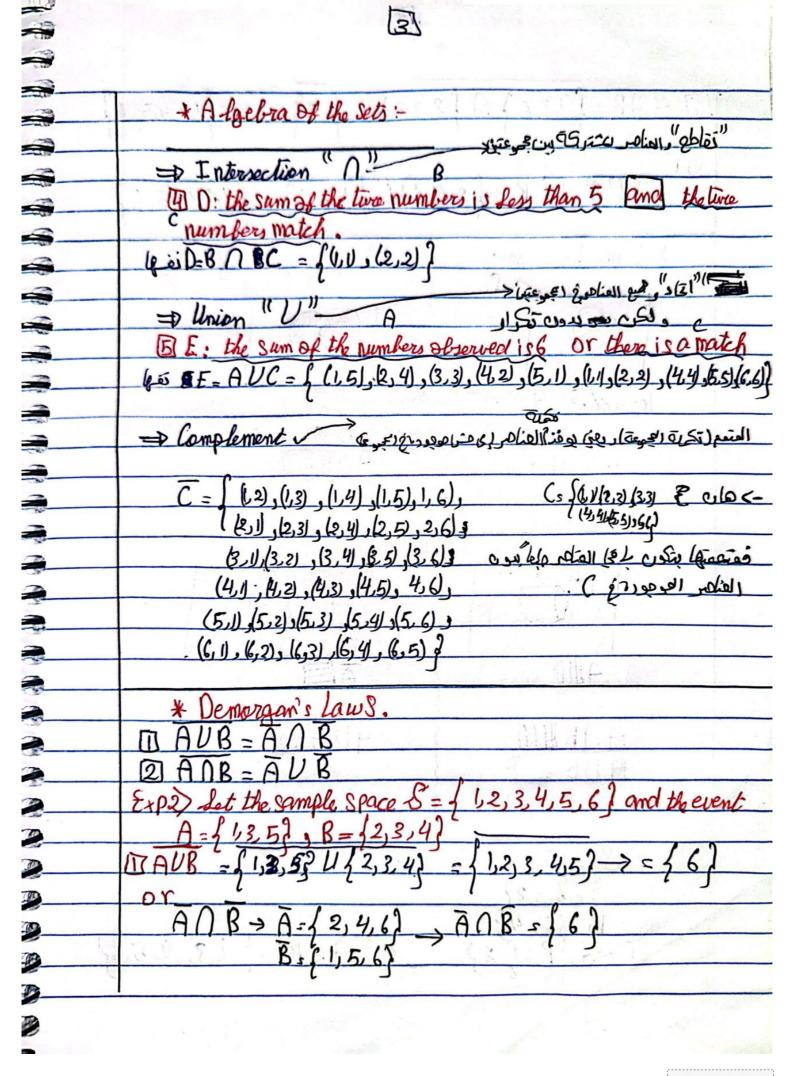
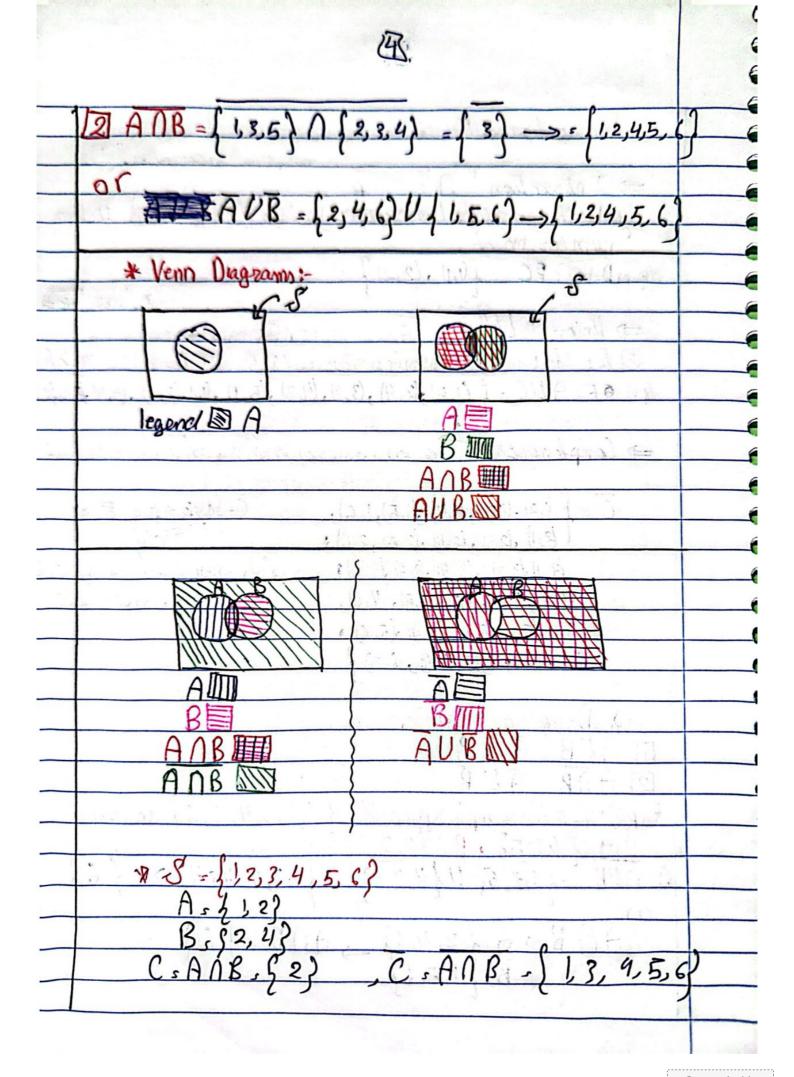
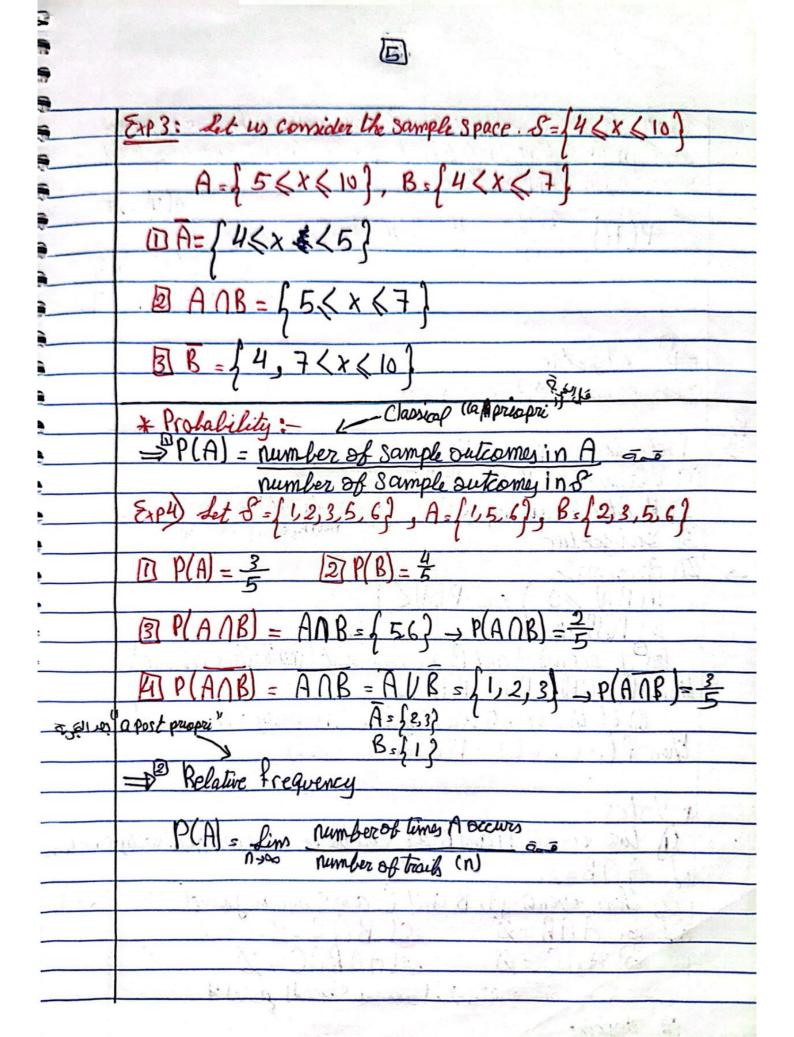
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HIP.	Ch 1: Fundmental of probabity:
A111	THE HALL STATES
NAME -	* Experement:
Hin -	O can be repeated (infinite times), Like
Air.	
	- Phipping a coin - tassing a dice
3	
~~	
-100	head tail sample end = [1, 2, 3, 4, 5, 6] stample out of the sample out of the sampl
CASO.	Space Sp. A: Even Num. (and see 200)
Clar	F-S= SHT A= 12, 46?
C.W.	
No.	Sample & Sample outcome B: div by 3 outcome B=\(\int 3\), 62
No.	
3	C. Less than I
3	$C = \emptyset$
Ų.	D: Len than 10
·	0=8=[12,3,45.6]
50-	(2) has a well-known outcomes.
8	* Sample Space (S) (med) ej so
*	& Sample outcomes
-	* Event
2	Expr. Consider the experiment of flipping a green coin and red coin.
	I Write the Sample Space!
2	SELHH, HT, TH, TT
	SRB RG RG RG
	2 A: a match 3 B: the red coin is Head.
	A= SHHITT B= SHH, HT)
5	TRE PE
-	
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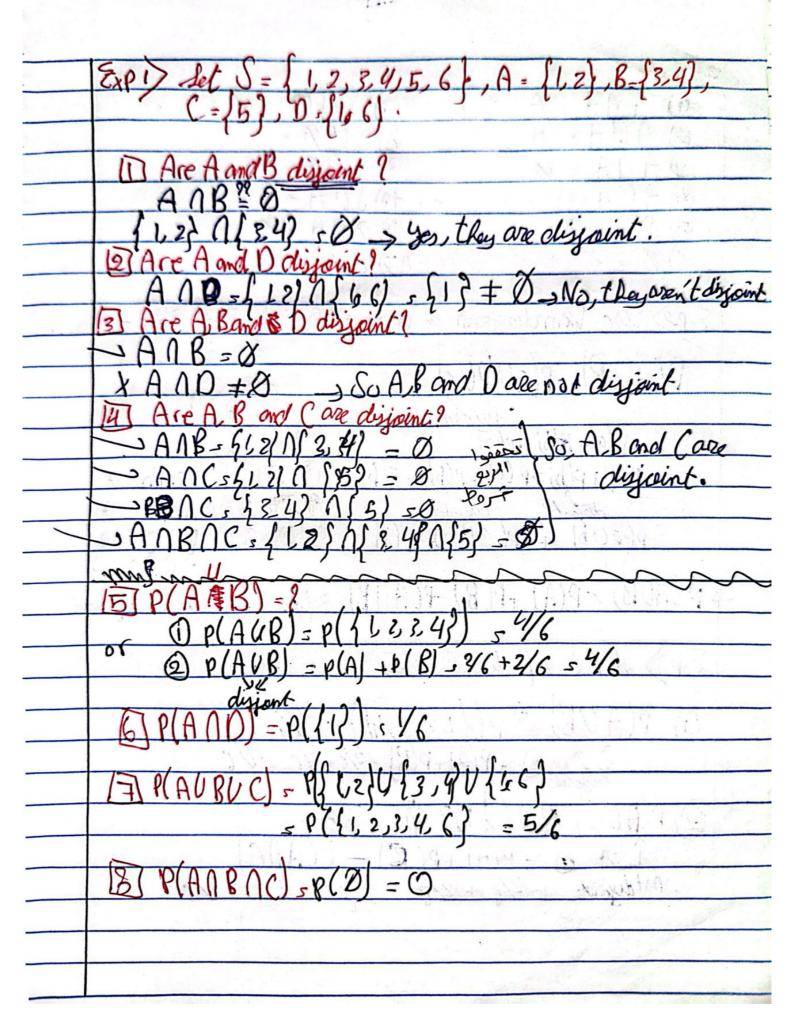
Enon Comity the examinant of Phinning true similar coins	
of the constitution last come place	
Write the Sample Space.	
D={HHHH 1 H 1	
Exp3: Copside the experiement of Slipping a coin and loss in a active	. 9
IT write the sample space:	
8 = S(H, 1) . (H, 2) . (H, 3) . (H, 4) . (H, 6) . (H, 6) . (H, 6)	(4)
TILT 2) IT 8 1 T. 9) T. 6) (6
12) A. Hand is Office attach anim and an even number is	
A= (H,2), (H,4), (H,6)	
2 4 - 6 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
3 B; add rumbers are observed on the die.	(
B=(H,1),(H,3),(H,5),(T,1),(T,3)(T,5)?	(
Exp 11- let us consider the experiment of tossing two dice.	
~ / · · · · · · · · · · · · · · · · · ·	
3 C: a match is observed.	
C= & (1), (2,2), (33), (4,4), (5,5), (6,6) 2	
TITTE TO HELD LEED	
531 63 53*	
book incorpor A. F. El	1
CTHURED & TITISHINA	
	1
	Exes. Consider the expansion of thipping two similar coins at the Samp time inthe same place. B = {HH, HT, TH, TH, TT}. Exes. Consider the experiment of slipping a coin and tessing active. It write the Sample Space. S = {HH, 1, (H, 2), (H, 3), (H, 3)

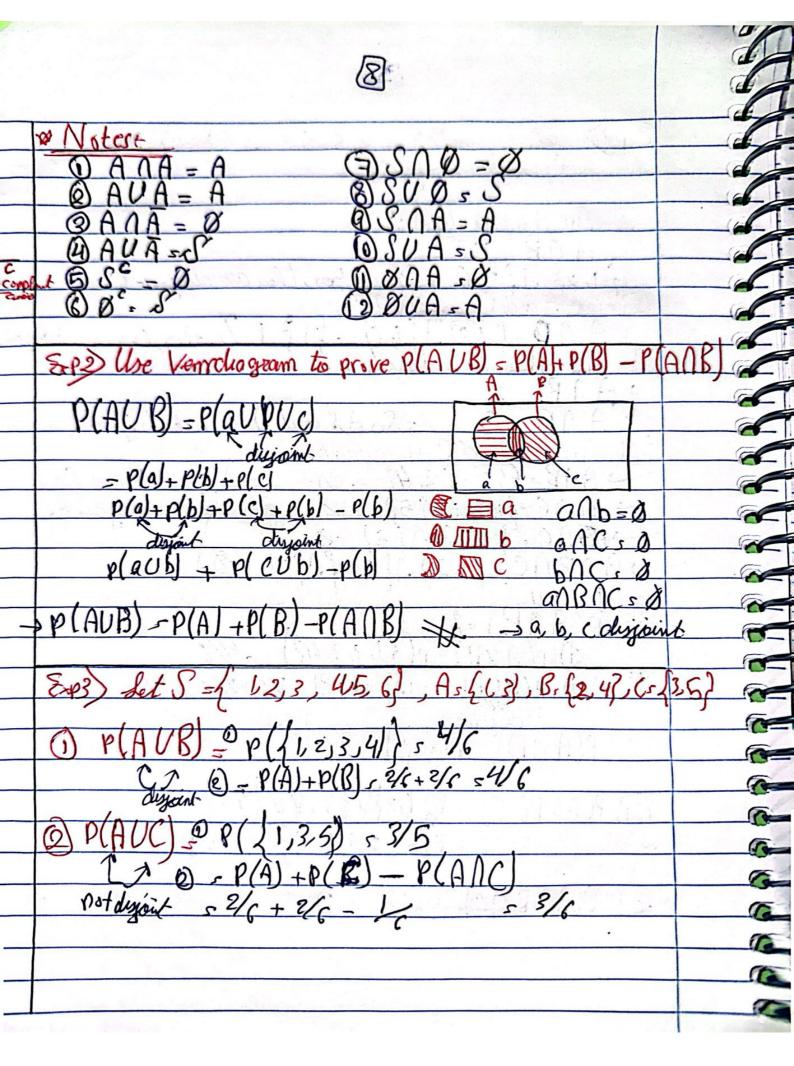


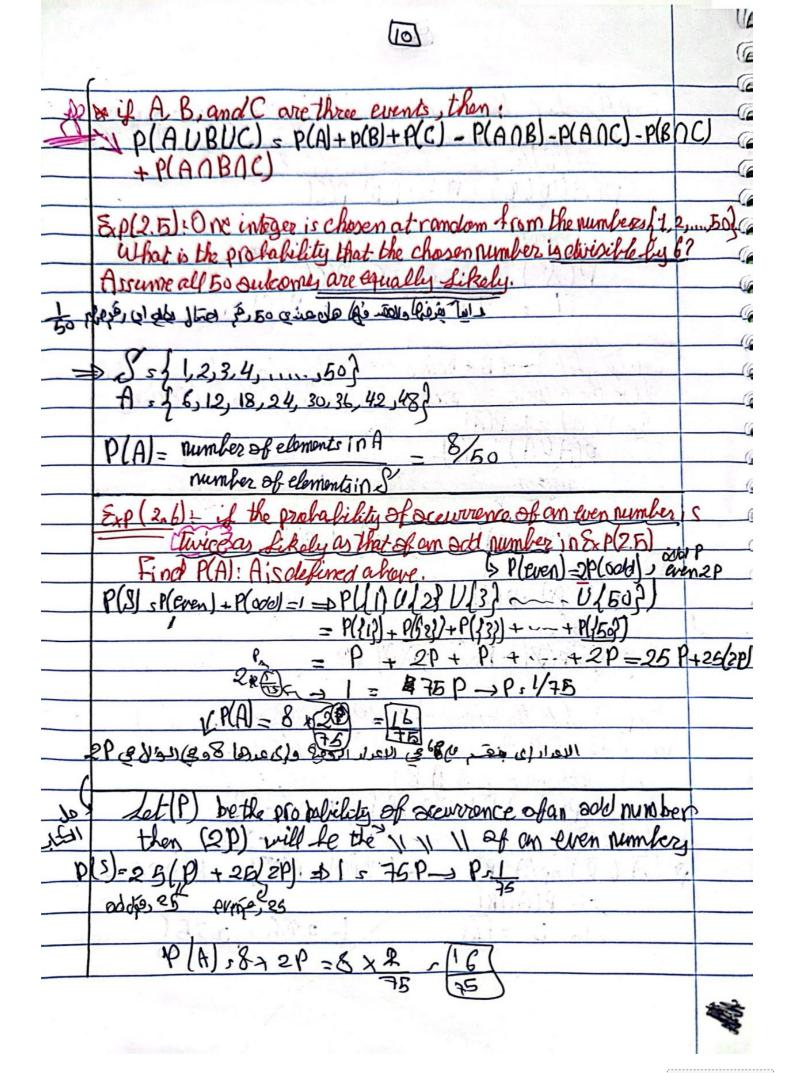


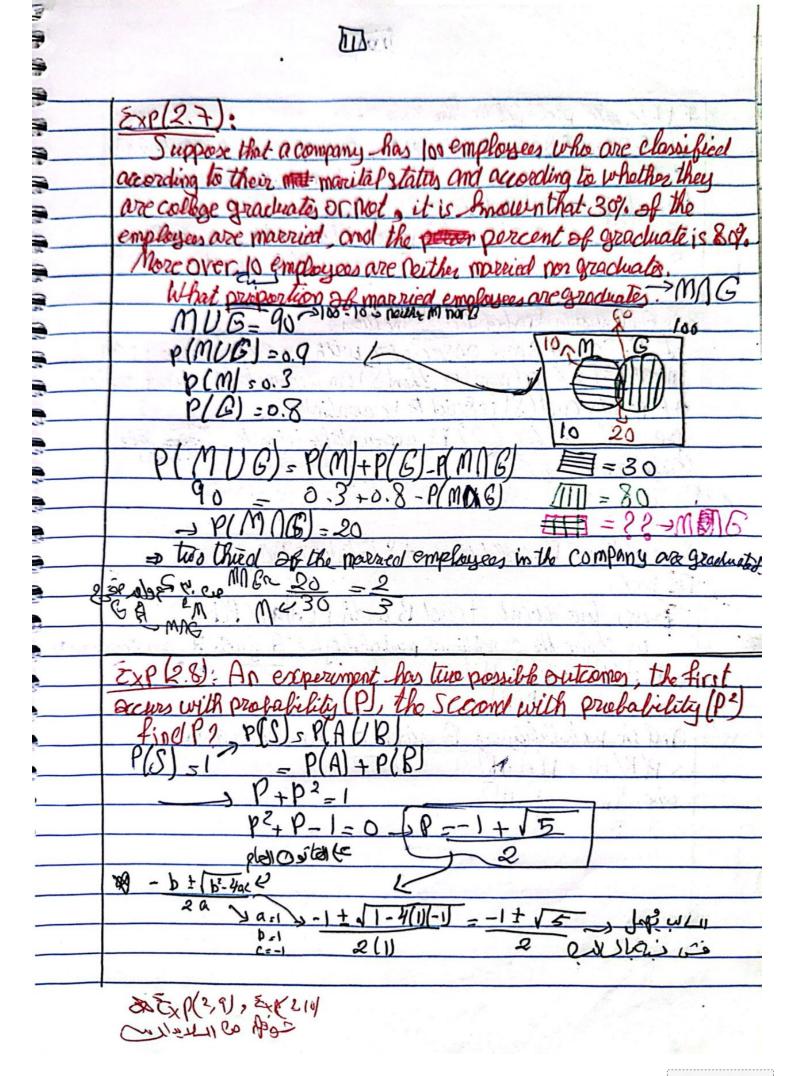


	65	
	Ep4) A coin is flipped for 10' times assume head is of server	
	in 4x10" times, what is the probability of of serving head	1
	after Shipping the coin?	4
-	P(H) = 0	5
	P(H) = 4x10 = 4 - 0.4) x fair coin (N(T)	-
	& Based coin >P(H) = P(T	1
	⇒ Subjective.	
	Cros ous chickein stard	
Rev	The state of the s	
>	Definition of probability: (1) Classical > P(A) = num. of succomo i A	
	12) Replie frequency > P(A) s I'm number of ting accours	
	3 Subjective "> number of trails (n)	
>	In Axiomatic	
	INP(A) DO O O PLA) < 1	-
	Bil events A and B are dissoint (mutually exclusive)	
1	Then P(AUB) = P(A) + P(B) Jeen	
	D if three events are disjoints (mutually exclusive)	
	then P(AUBUC) = P(A)+P(B)+P(C)	
	The same of the sa	
	* Notes'-	0
	1 two events A and B are Said to be disjoint (mutually	exclusing
	L H(1B=10	1
_	2) three events A, B and C are Said disjoint ()	11)
	DAACS MAARACSO	
	لا لازم الرب بحقوا ، لوواله وانتما بكورك	
,	disjoint .	



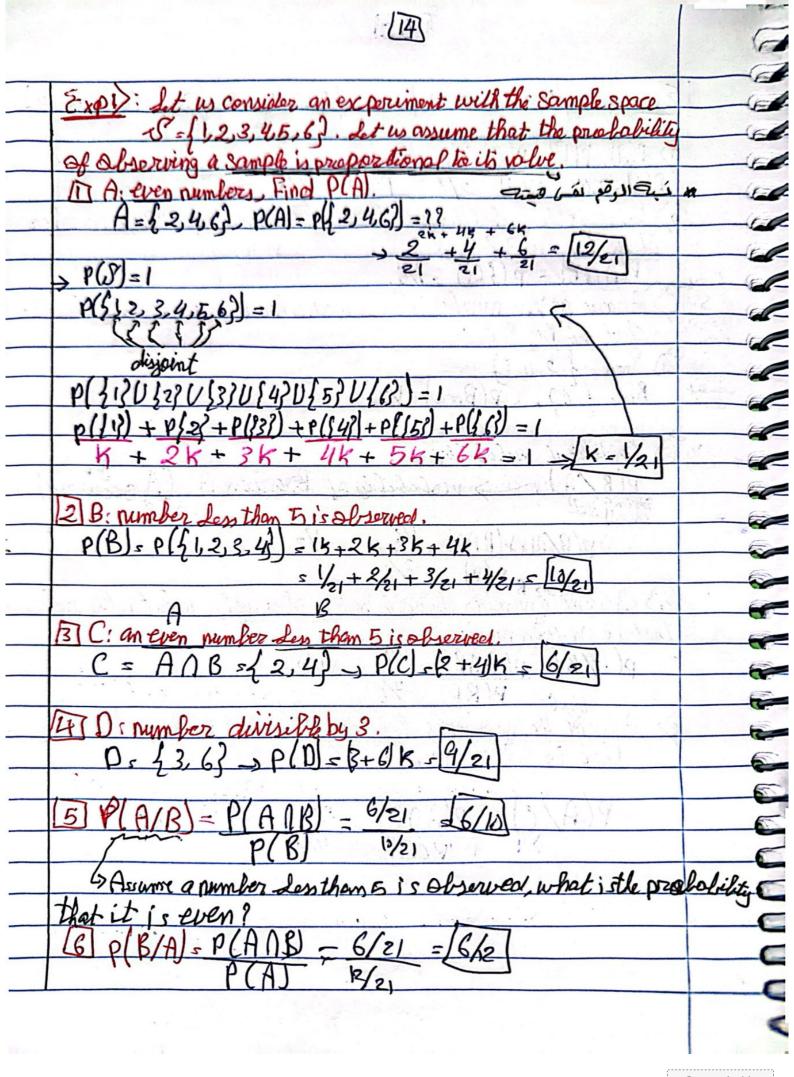


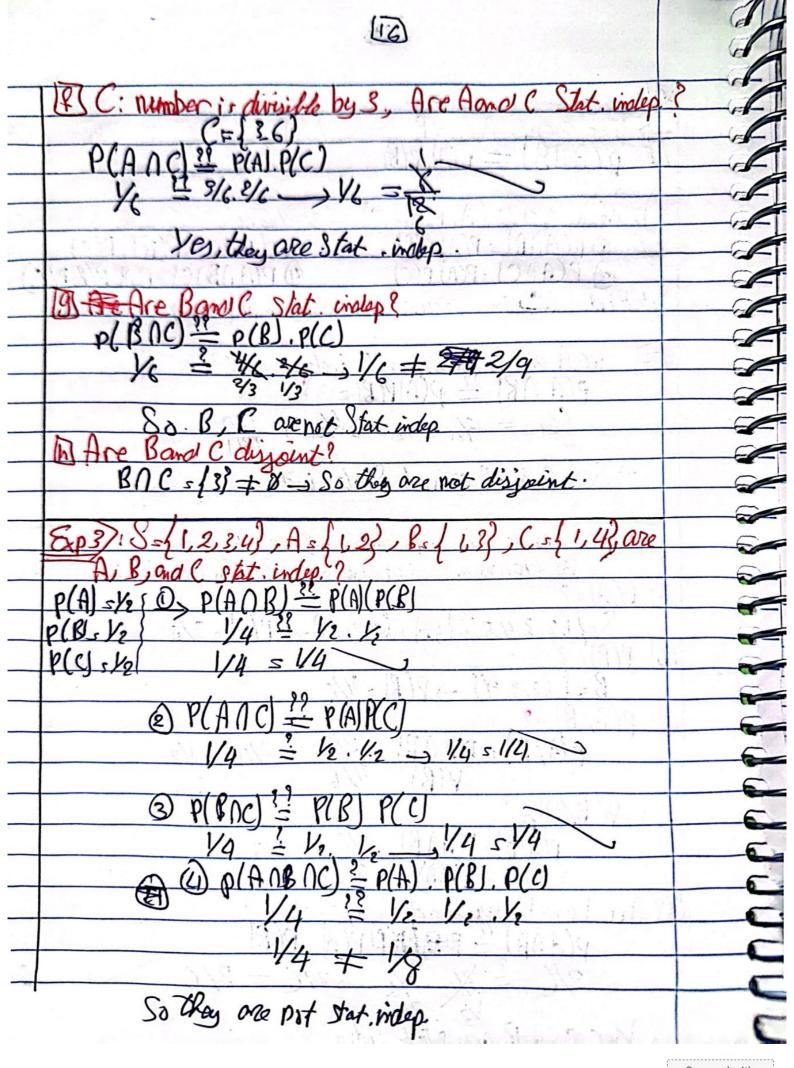


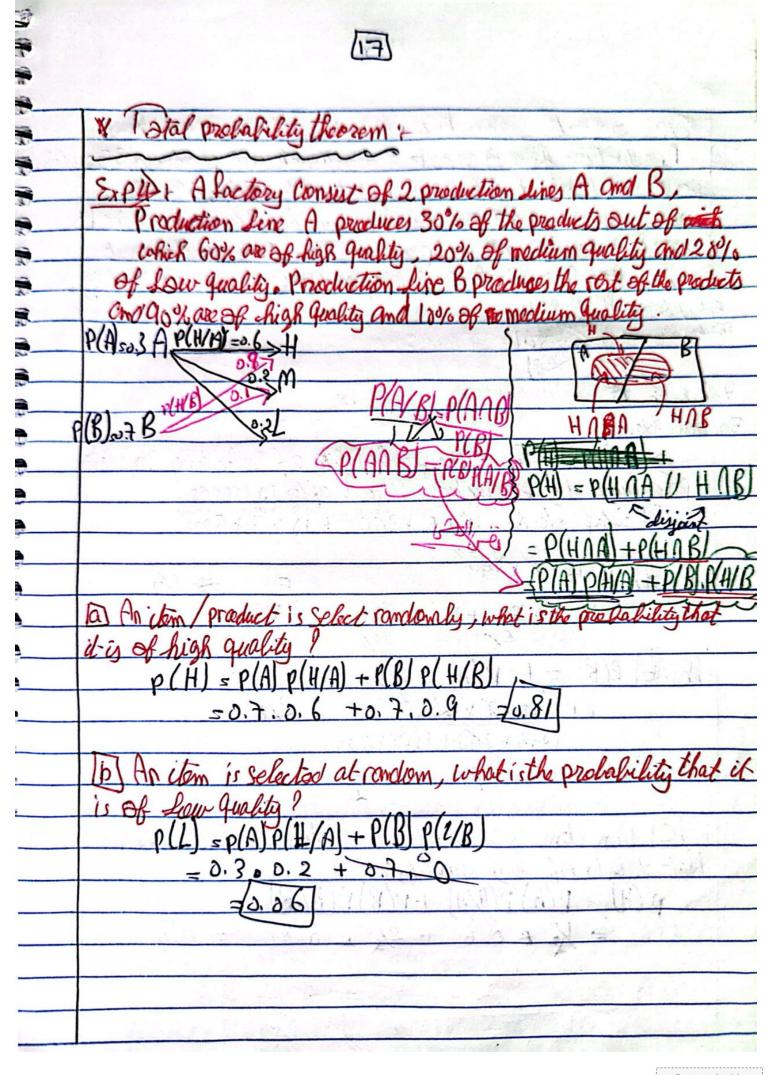


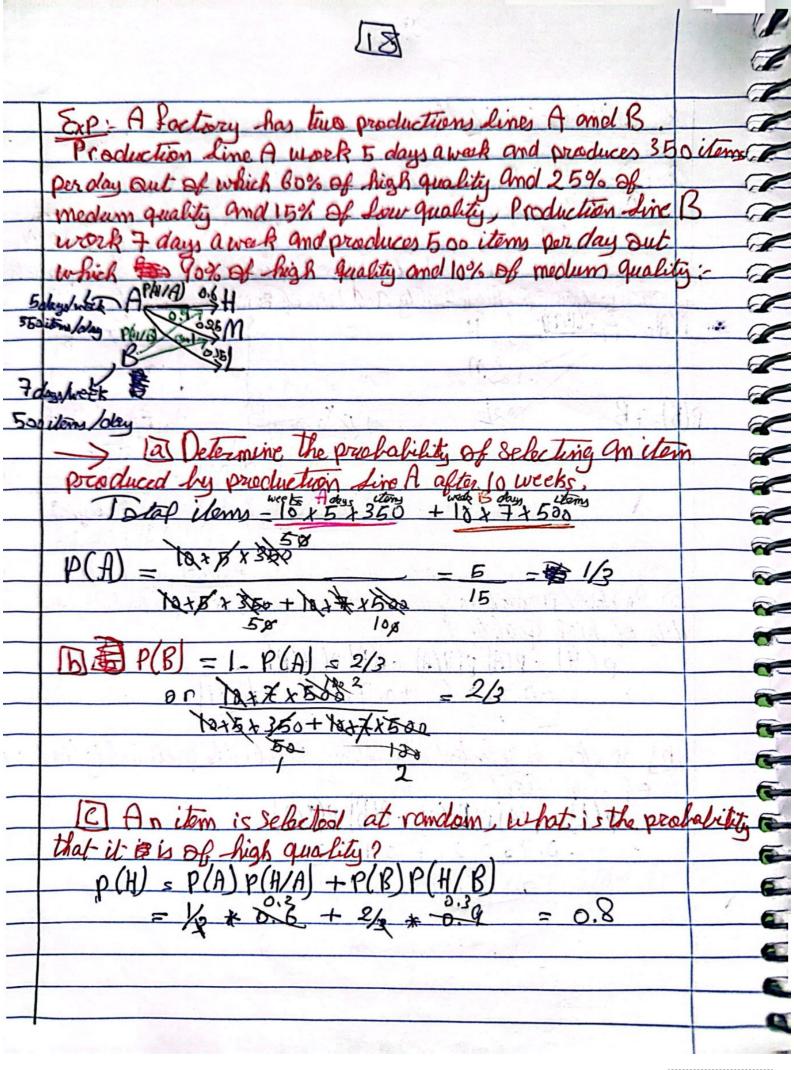
	* Discrete probability for function:	
	if the Sample Space generated by an experiment contains	
	either a finite or a countable infinite number of outcomes	
	then its is called a discrete sample spare.	
1	Ep. 5" = 123 45 67 is countable finite 1913	
73	Spirs 12,34,) is countable infinite mers	
	if the Sample Space associated with an experiment is an	
	if the Sample Space associated with an experiment is as)
	interval of real number then (S) on uncountable infinite num	ber
	At points and lickorid to be auntinuous	
	Se: "S"= [1 < x < 2] is uncountable infinite (substitute) (Teno) & substitute)	
	(Gen) Eredelongol)	
65	اخا تبيان وَعَده الإوامة المحالة المراحة المراحة و المالية الحالة	
25		
	& Conditional Propabilities and Statistical Independence:	
	Def:	
	Given two events A and B with P(A) and P(B) >0	
	we define the conditional probability of A given B has occu	57500/92
-	SP(A/B) = P(AAB)	
	given (são P(B)	
•	and the probability of B given A has occurred as -	
	> p(B/A) s p(A)B)	
	given it PCAT	
	242-11-1343 (C) Sig	
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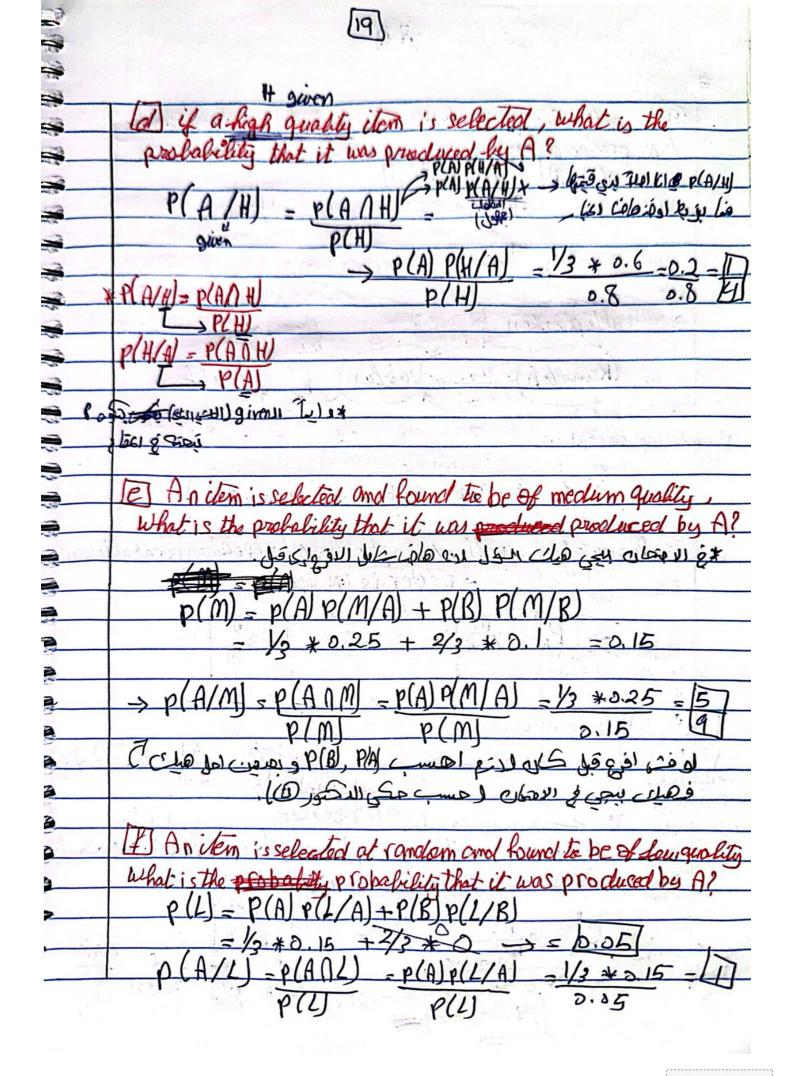
Exp: S= 11, 2, 3, 45, 6), A= (2, 46), B. (3,6), C. (1, 2, 3, 4)
그는 그들은 사람들은 살아가면 가장 그는 그들은 그들은 생각하는 것이 되는 것이 되었다면 하는 사람들이 되었다. 그는 사람들이 되었다면 살아 없는 것이 없었다면 없다면 살아 없었다면 없다면 없었다면 살아 없었다면 없다면 없었다면 없다면 없다면 없다면 없다면 없다면 없다면 없다면 없다면 없다면 없
P(A)=3/6, P(B)=2/6, P(C)=4/6.
b) what is the probability of at a sleering anter number
divisible by 32
GISON P(A(18) = p(16)) = 1/6.
OFSEI C) Assame gneven number is abserved what is the probability that is
awish by 3
S (1) Onew = 1 2, 4, 6). Brew of 62 > P(Brew) 5 V3.
200 1 = (3) 14 (2) 14 1 (2) 14 - (2) 14 - (4) 14
wide @ Conditional probability:
DIP AN I O.
given islated Agrice (200)
p(B/A), b(BNA) 5 1/6 5 1/3
a) Assume & number divisible by 3 is observely, what is the probability
that is an even number
p(A/B) = p(AAB) = 1/2
(in P(B) 3/6
& Assume the number is Sess than 5, what is the probability
that is an even number
P(A/1) P/ADC 2/6 2/4 5/12
P(C) 4/619
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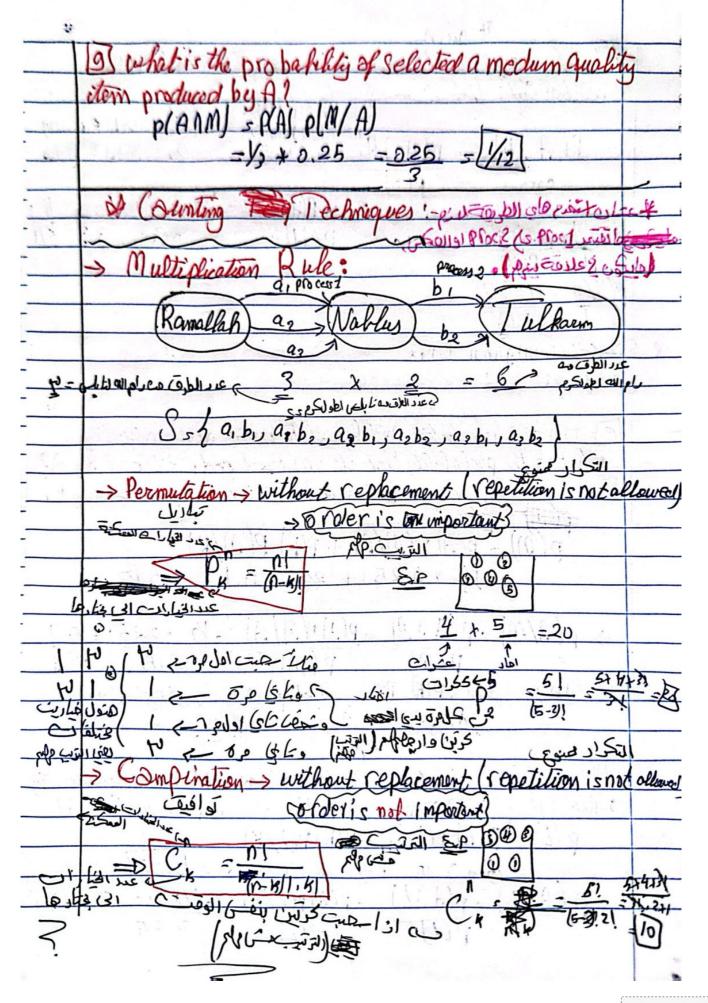






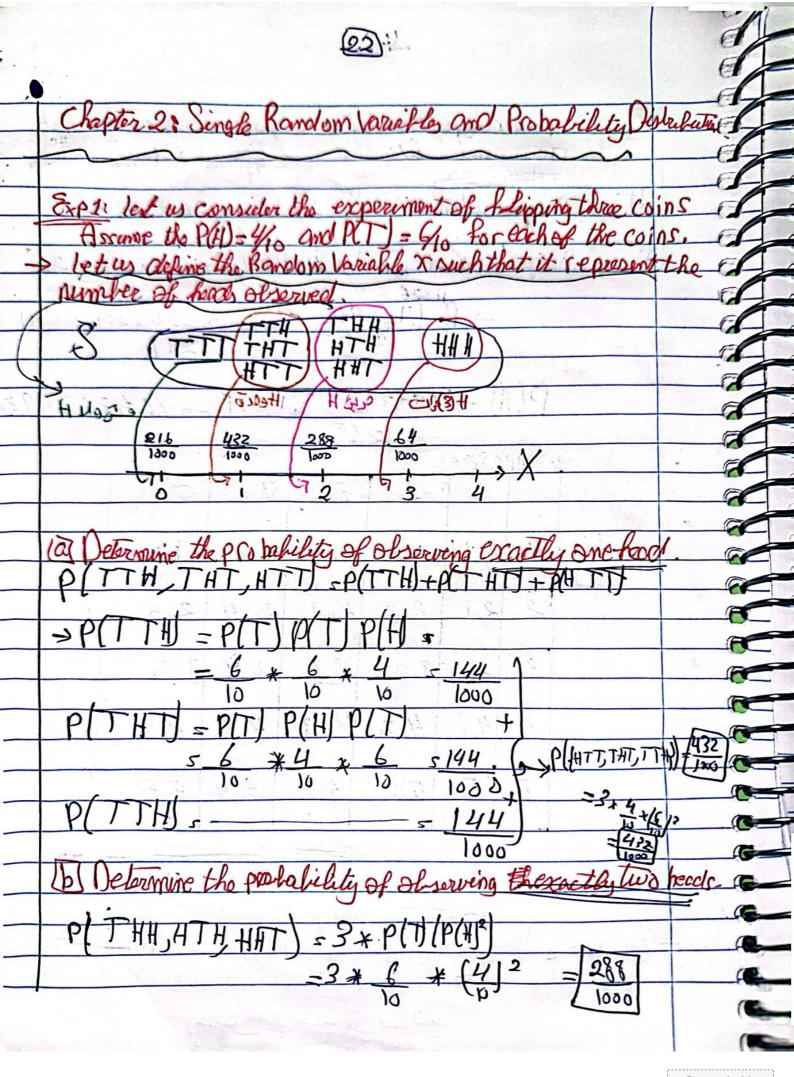


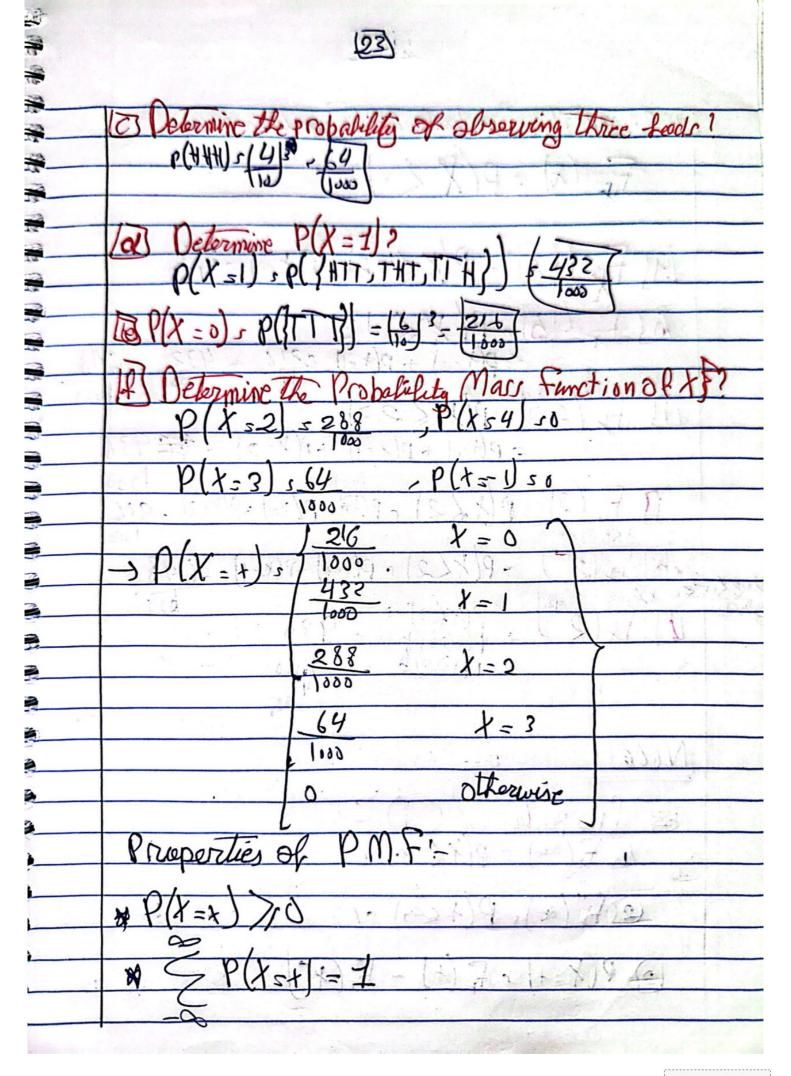


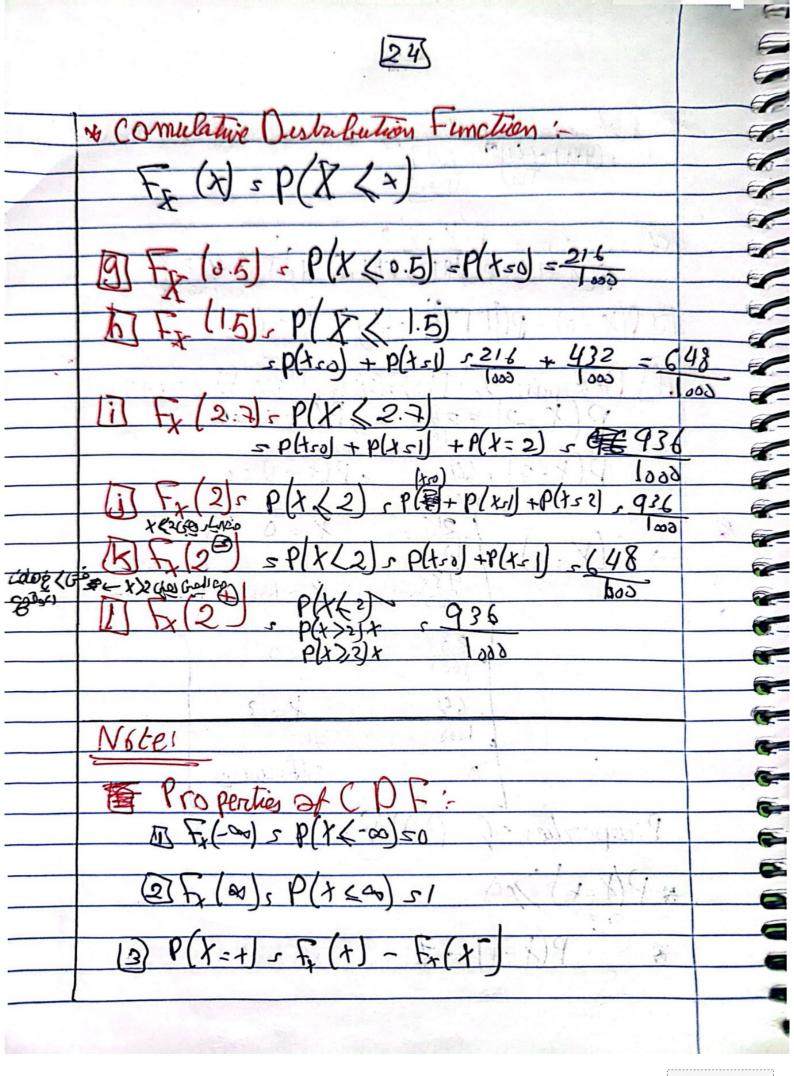


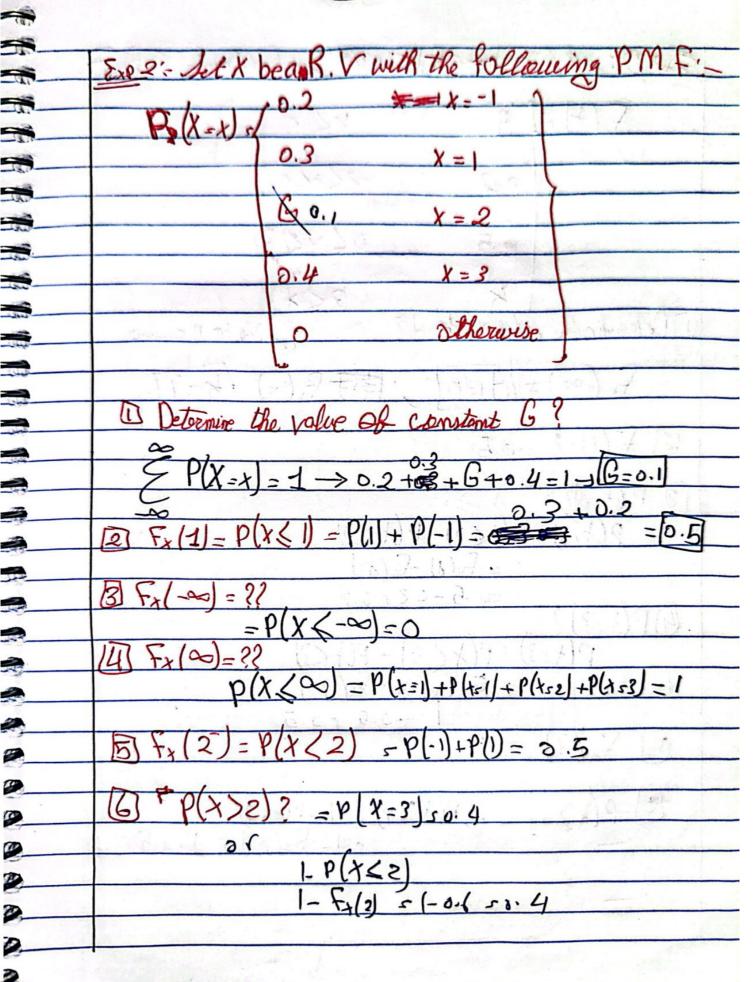
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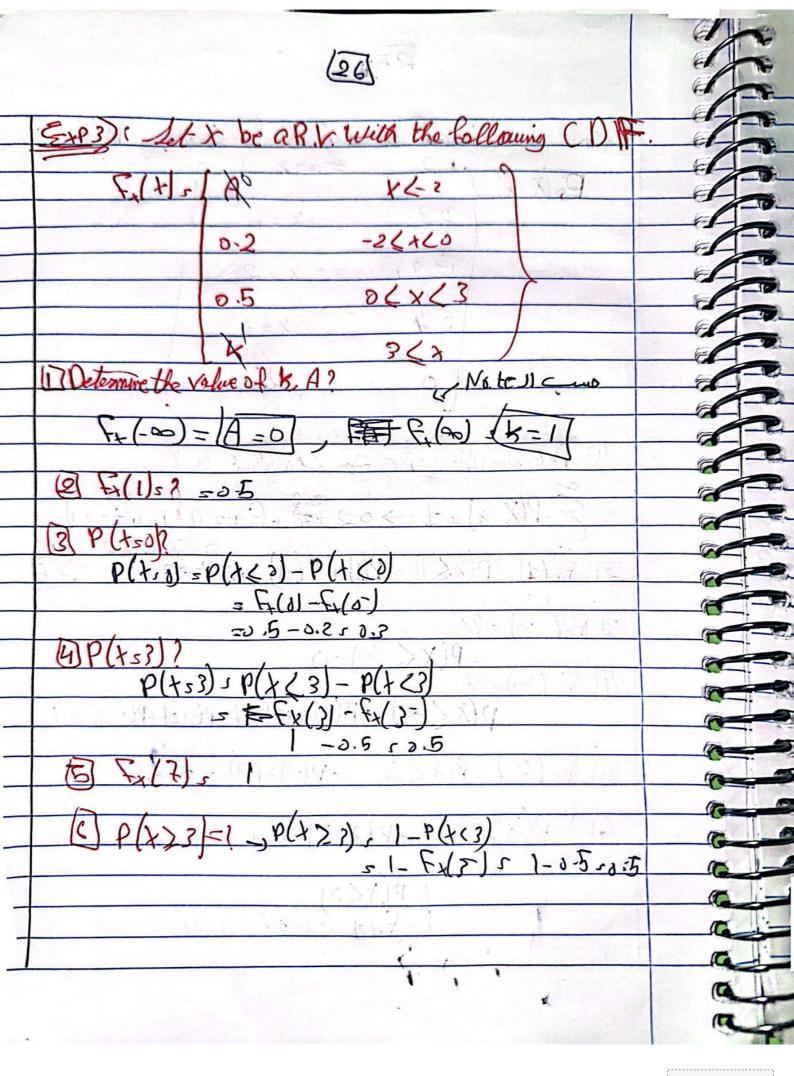
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	Hops	ample	Bute	comes 19	8-2	6+26+	26 #2	6 *26
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	8 38 #	ample	e Dute	Dray in	A =2	6 * 25	*24*	23 +22
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			1	2	3	4	5	1
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	- Fares	V	1,1	1,2	1,3	64	15	V al
	1111	- 1	HIV	14 (H) 7	19-11	THUT	HELL HIL	19
		2	2,1	2,2	2,3	2,4	2,5	101 .
			- (, ,	7 (1)	100	116	2 =	115
		3	3,1	3,2	33	27	9,6	
		4.	4.1	4,2	4.2	11 11	40	rla
-	16.19		NON	1,2	113	129	25	
	1	5.	51	5,2	5,3	54	5.5	
•	1× 6		121				2 11 16	19.
	(3)			,		7		4
	20 <- 1	1 ريل	2 (2	sid _	التكرار	CIC	131-	1/4/
-	/ = 11	-1/10	Ed al	2				10
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	7.5		-	ر لاعل	(2)	1/20	بعو	
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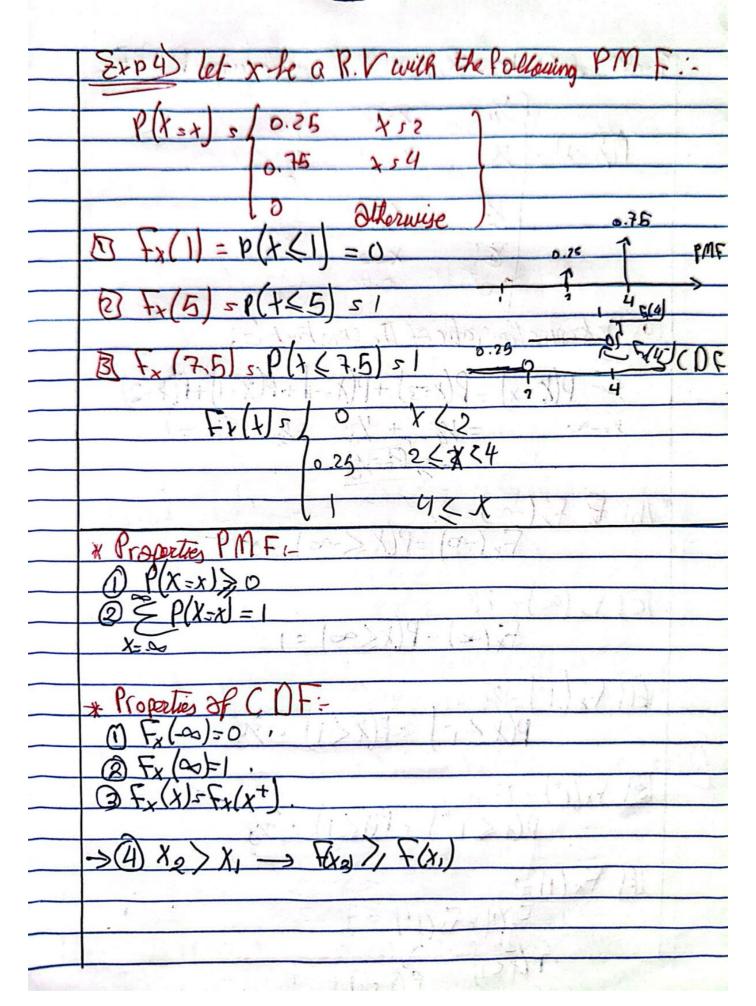


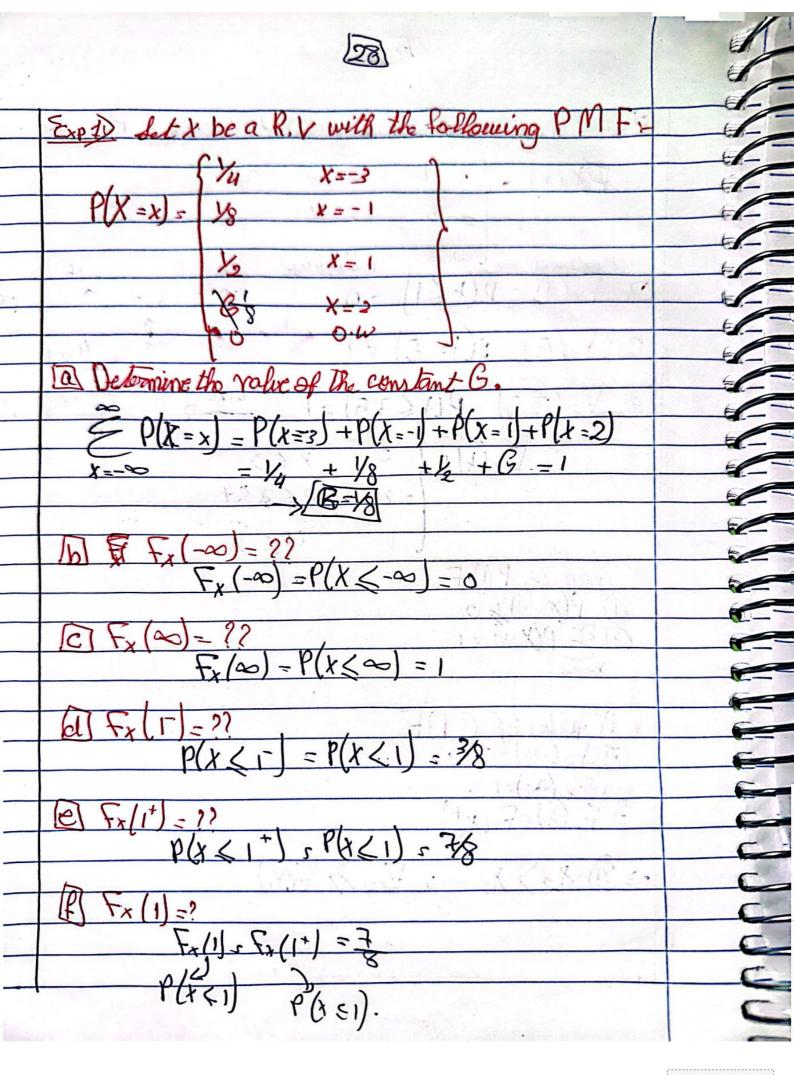


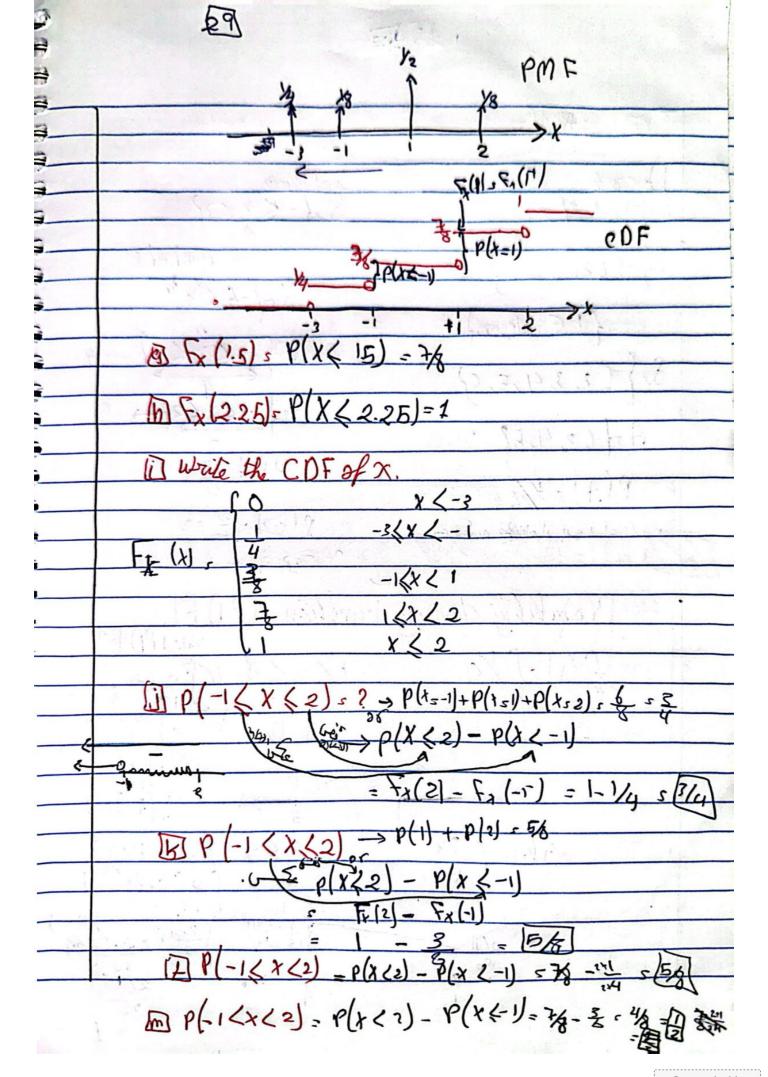


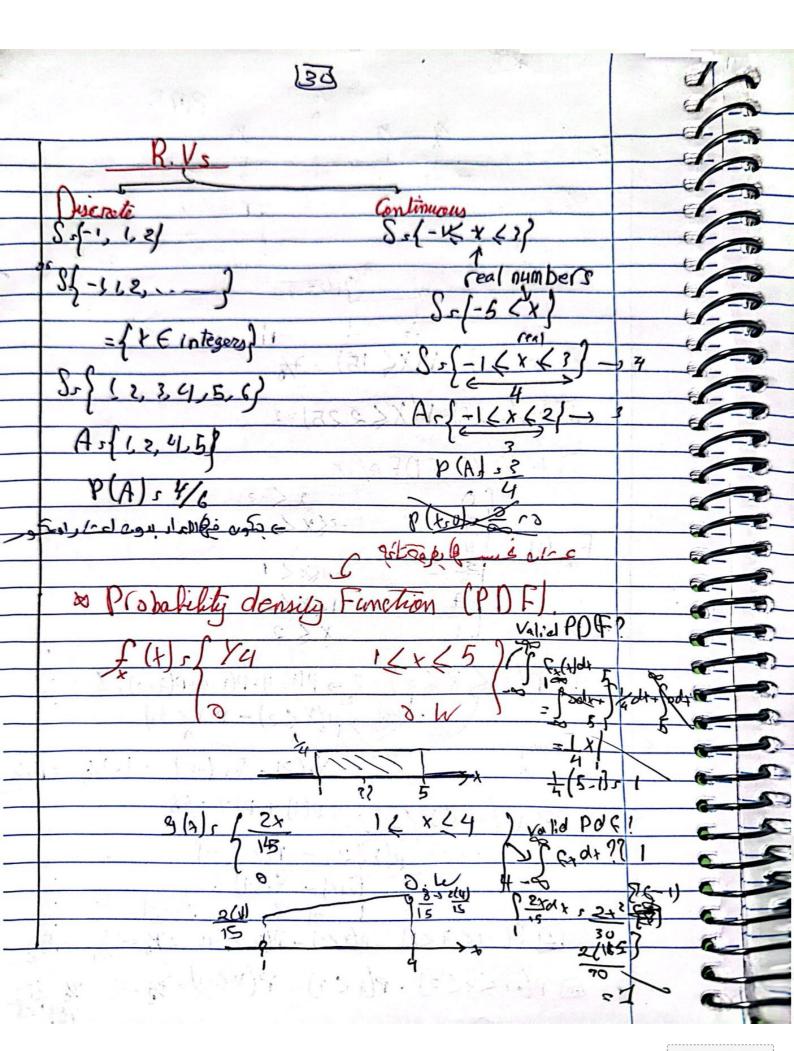


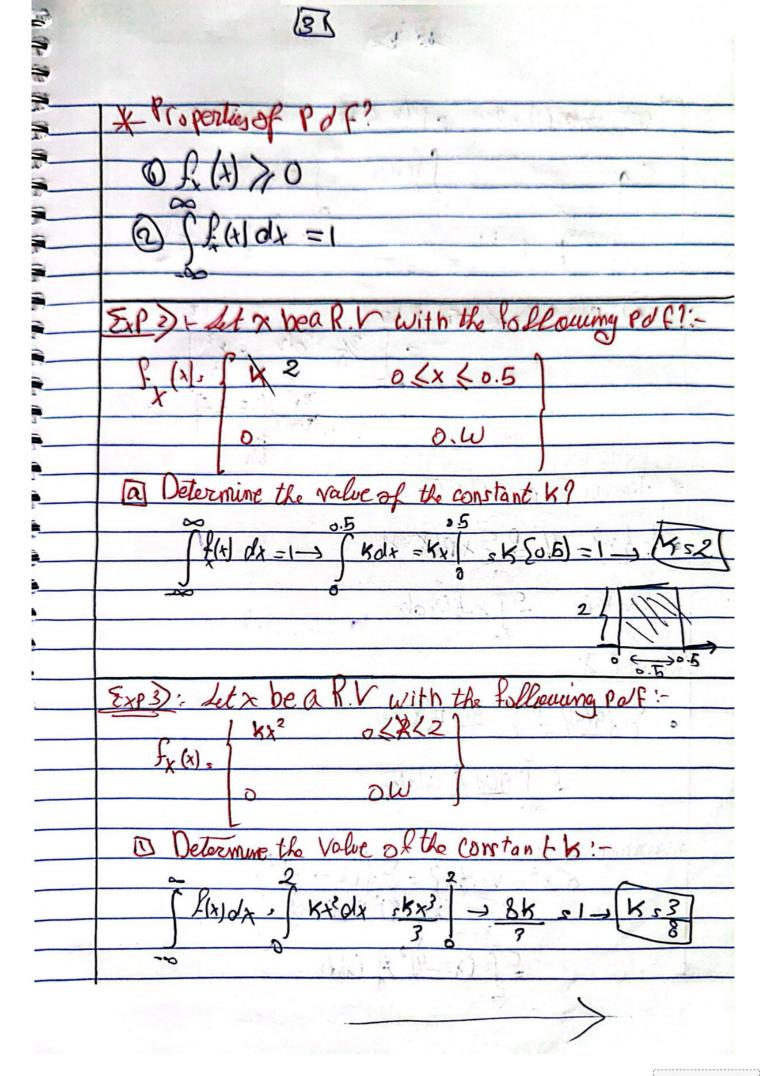


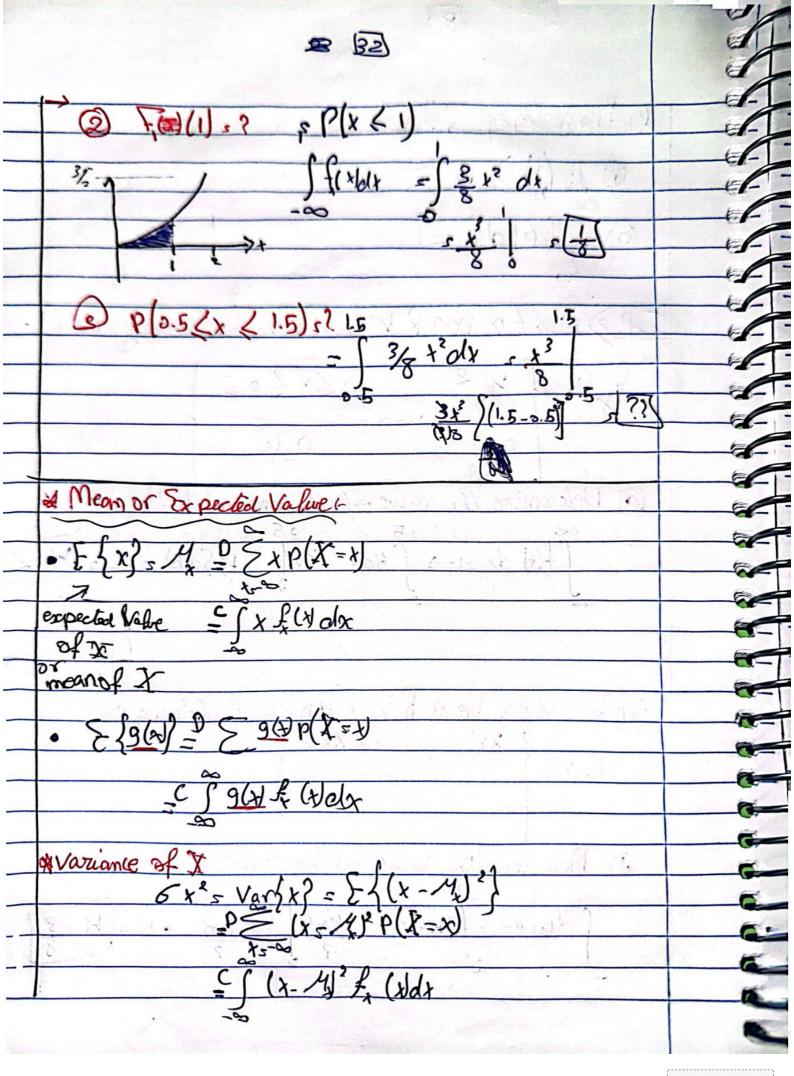




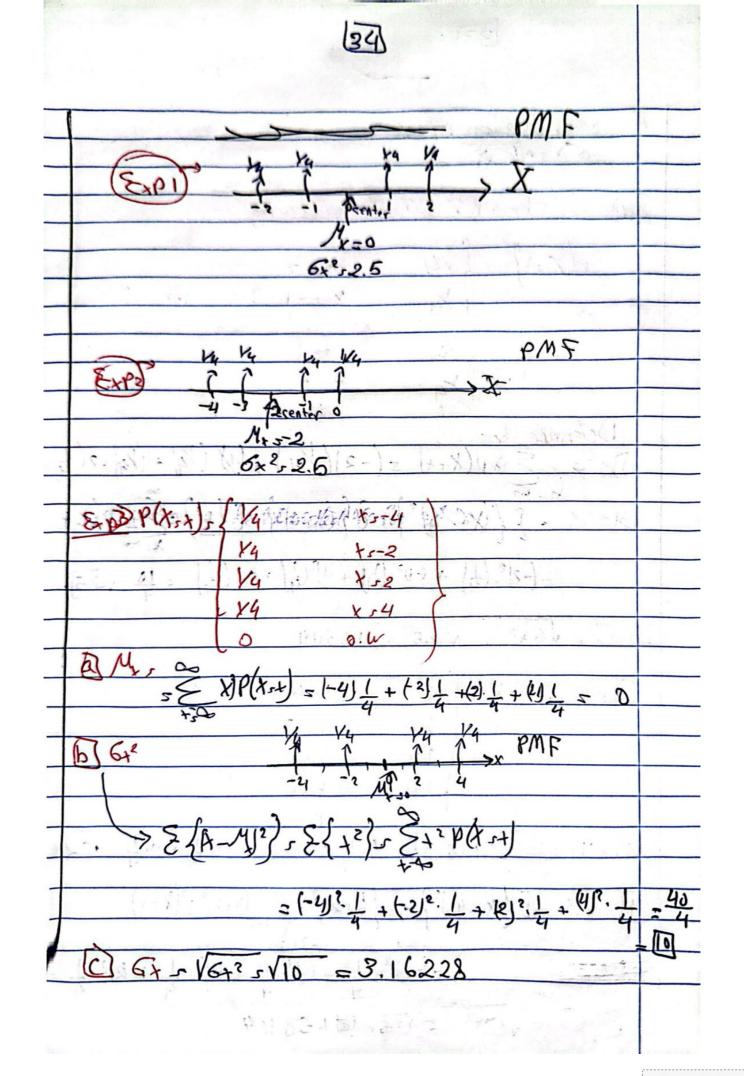


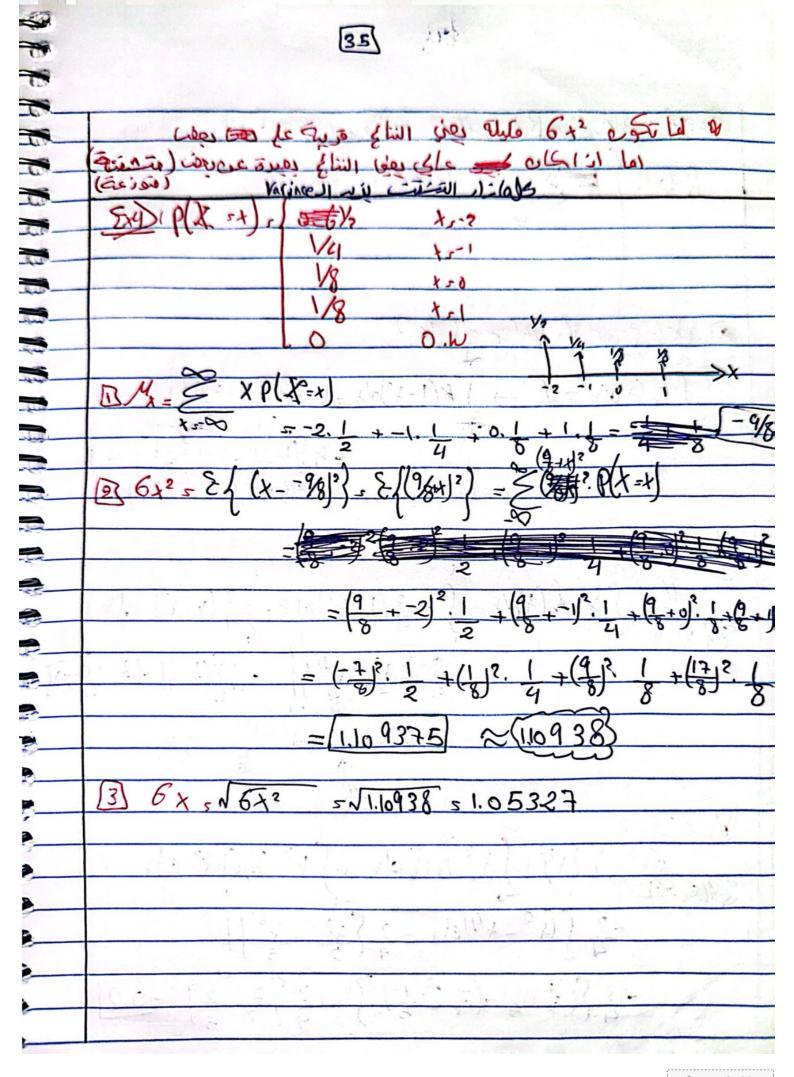


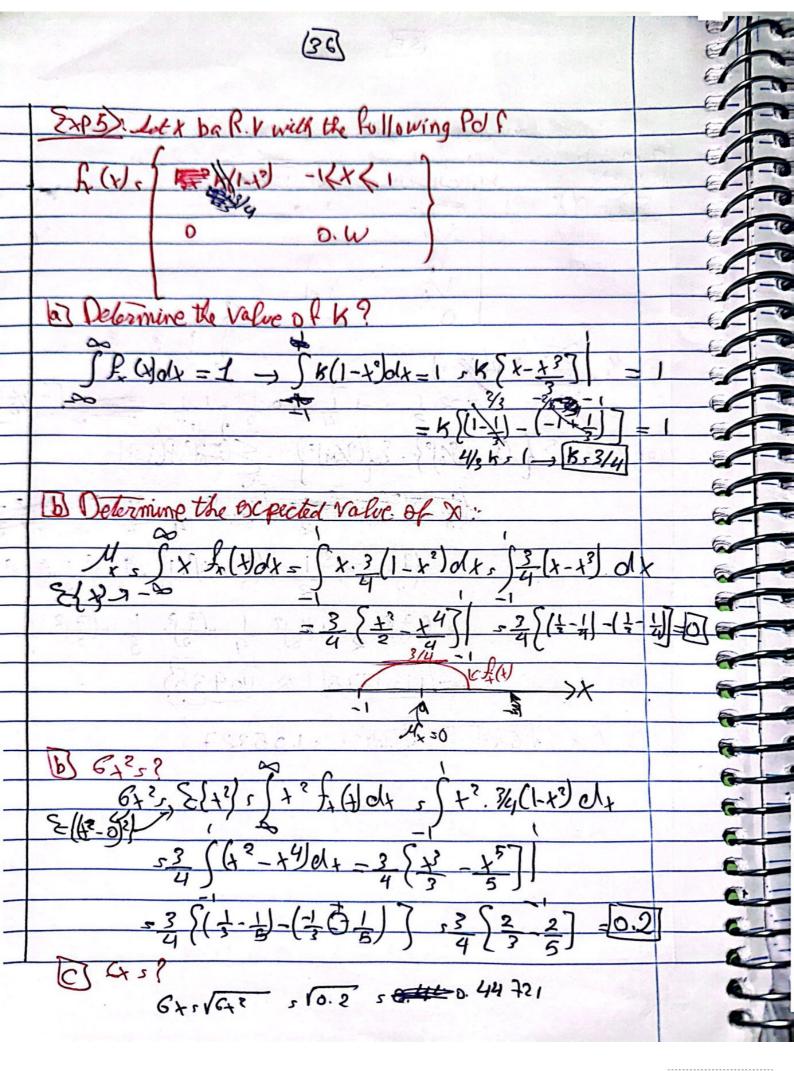


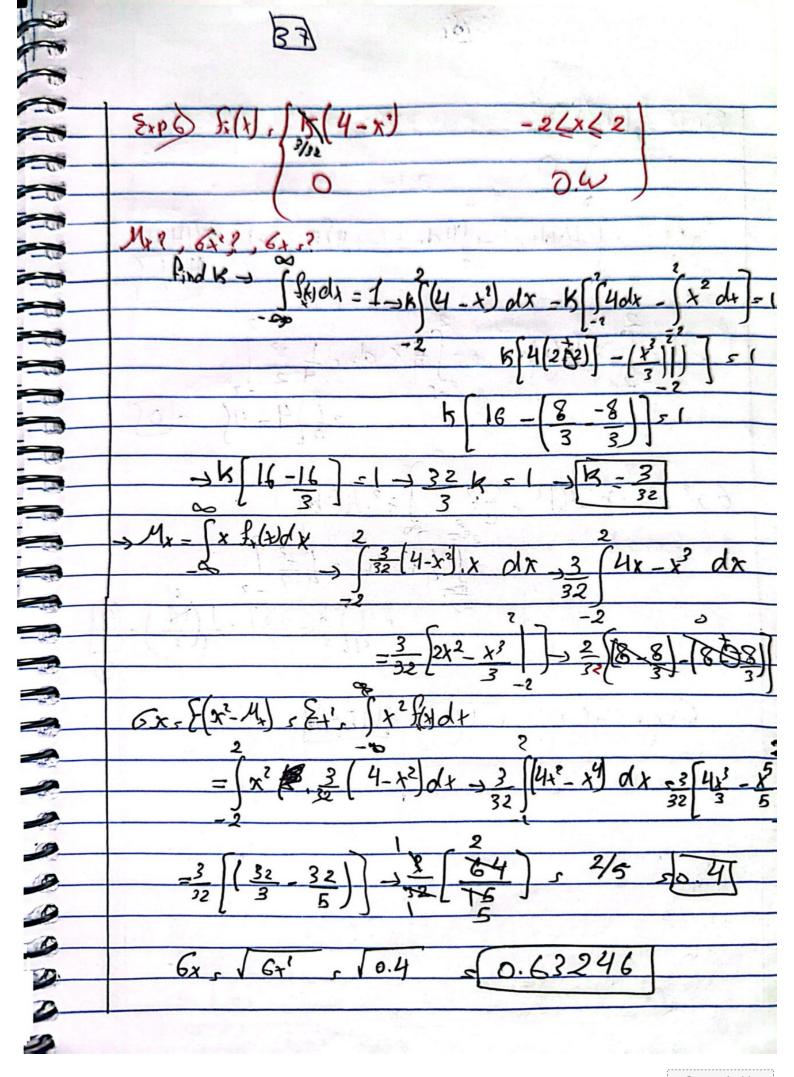


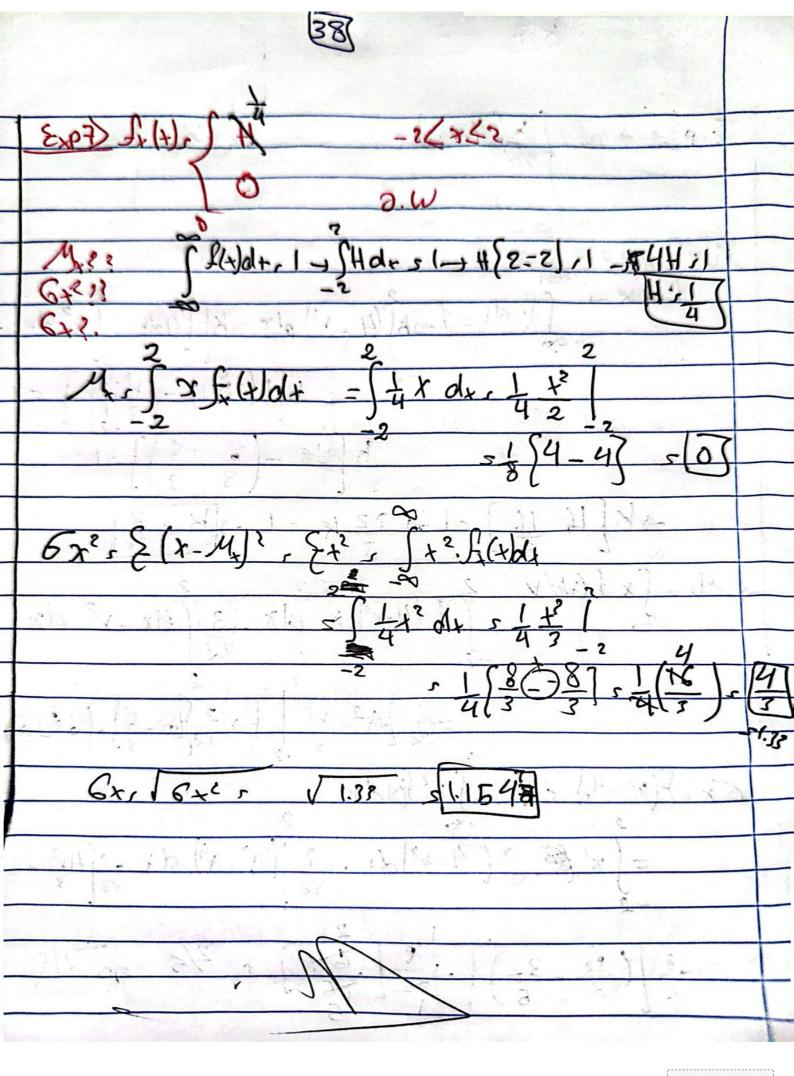
x 5 tondard deviation of X:
x standard devaluen of X:
Exp. Let & be a R.V will the Collowing:
1 1 CV
P(X = 1) 1 /4 x=2
/ X. X1
70
/YU 751
K 7.2
2 0.14
Determine the :-
Determine the: The state of th
X-80
126x2 = [(x-14)2), E(x-0)2), E(+2) = 5+2p(x-4)
1 = t (x-14) 3 ((x, 4)) C (x, 5)
= (-2)2. (1) + (-1)2. (1) + (1)2(1) + (2)2(1) = 10 -[2.5]
= (4) (4) - 4 - 4
B6x. V6x2. V25 = 158114
36x, 16x2, V2,5 = 1.58114
$C > a/\pi $
Exp2: P(X=x), Yy
Y4 } 5-3
V4 + 5-1
Y4 + 50
0. 0. W
Q Mx = x P(8=x) = -4. + +- 9. + + -1. 1 + 0.1 = [2]
75-00
(B) 6+2= Exx-14)2)= Exx+28/= 5 (x+2)2 P(x=x)
41.2
= (-2)2. 1 + +112. 1 + (1)2. 1 + (2)2.5
4 4 4 4
EG 5 VO42 = 125, 18 1.58 114
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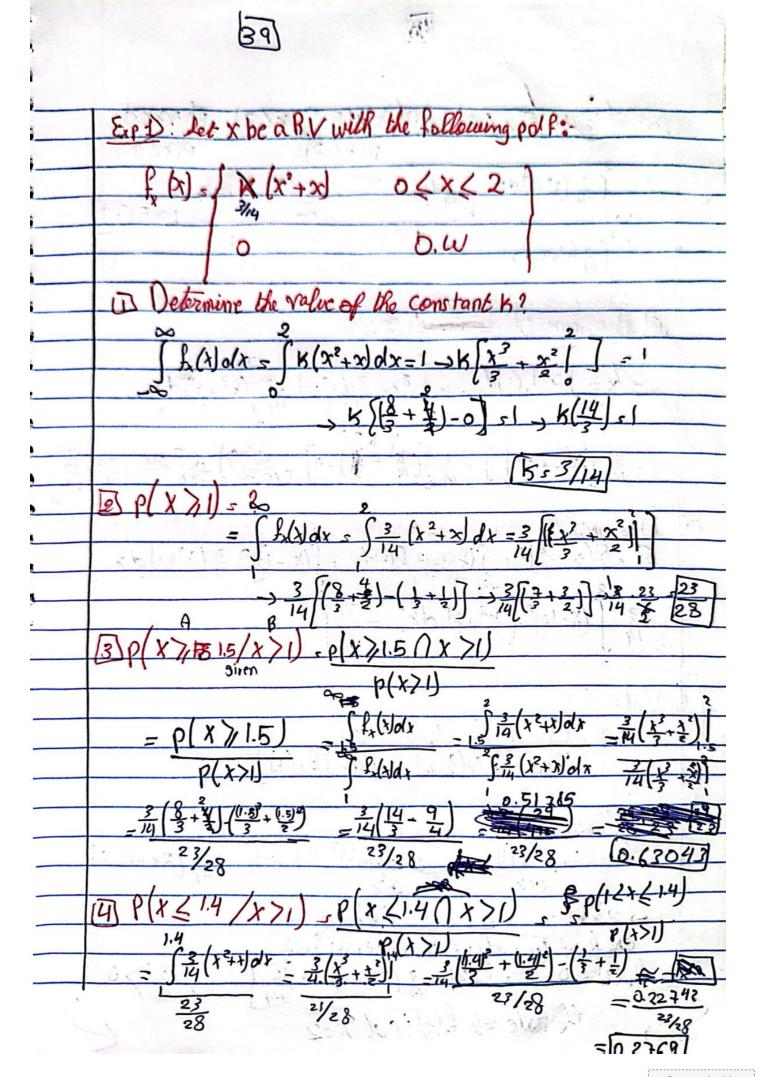


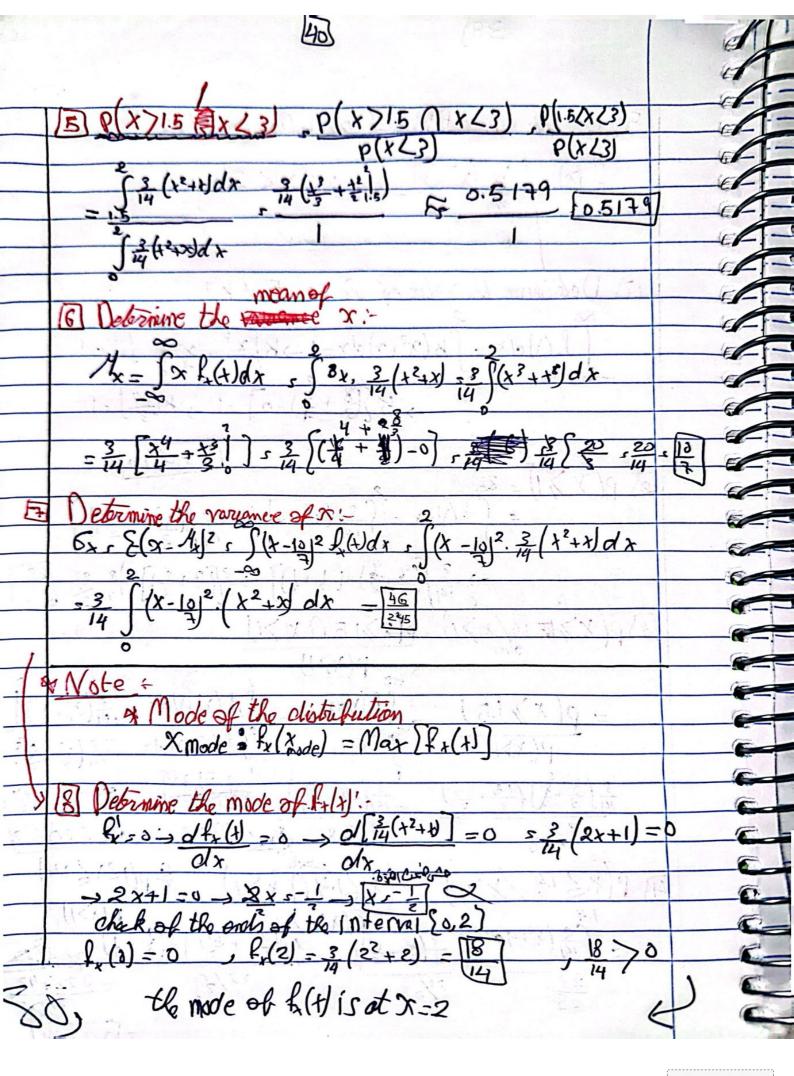


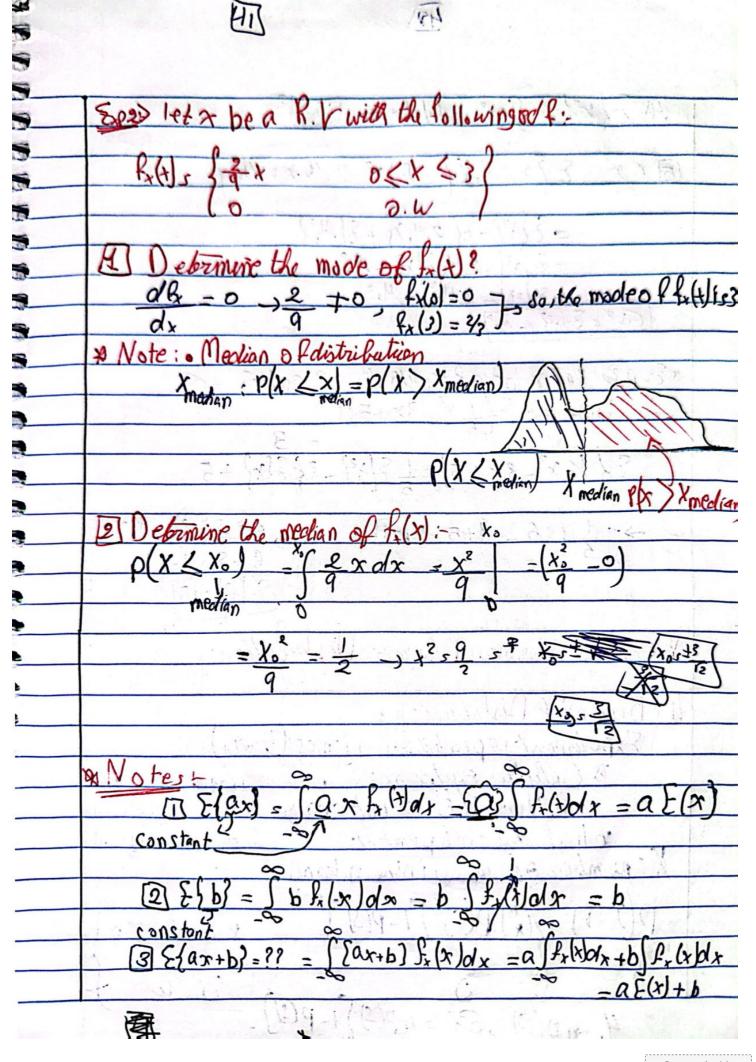


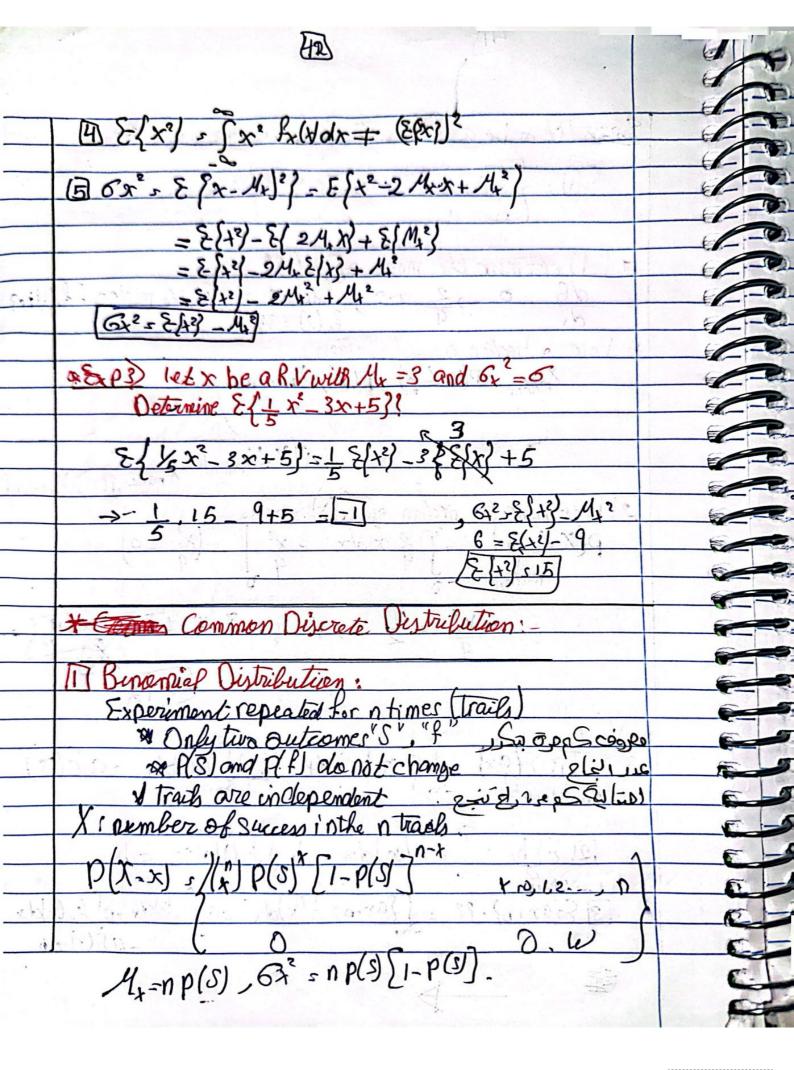


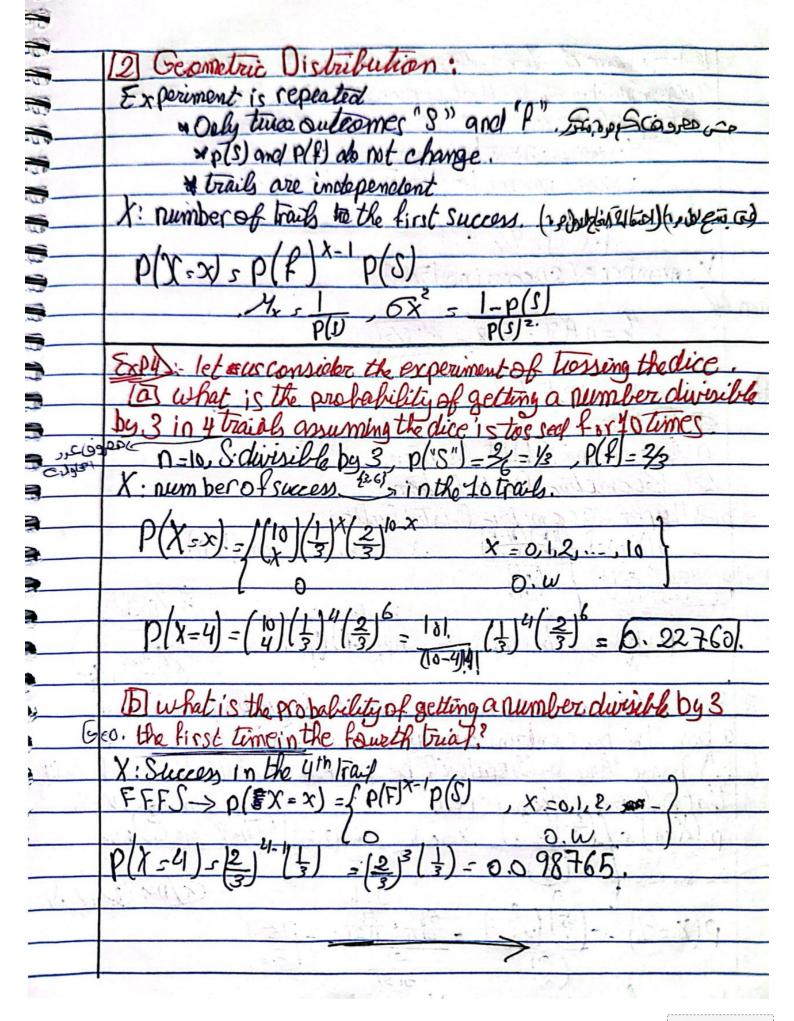


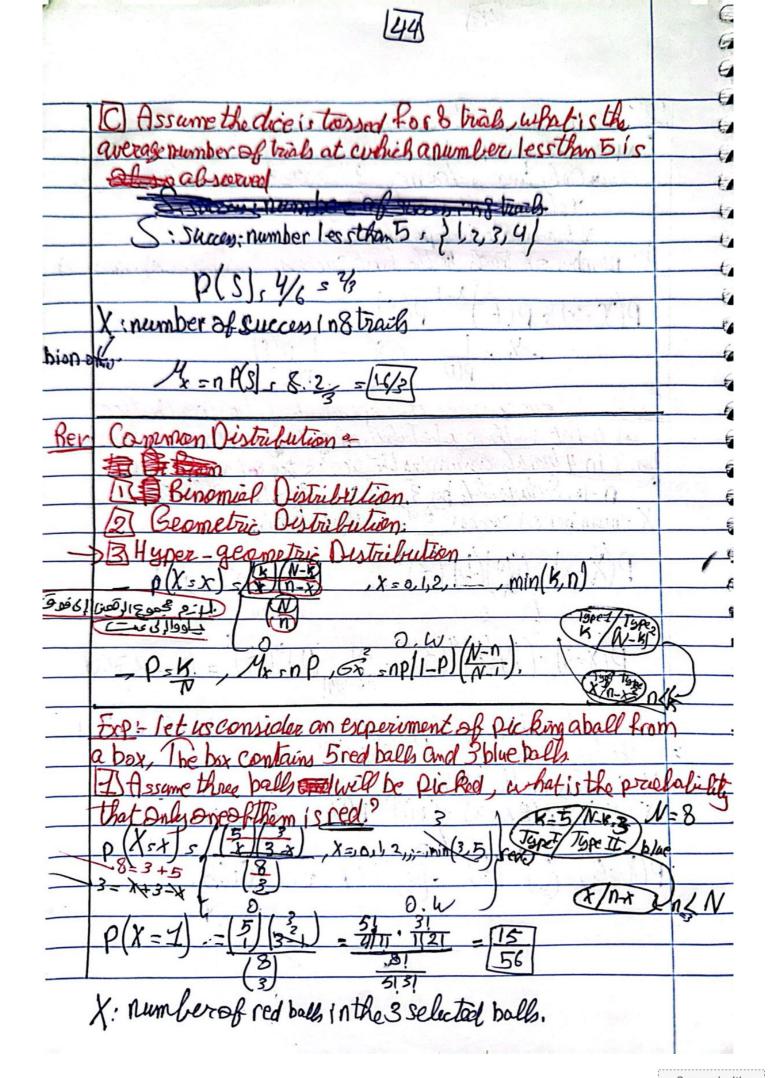


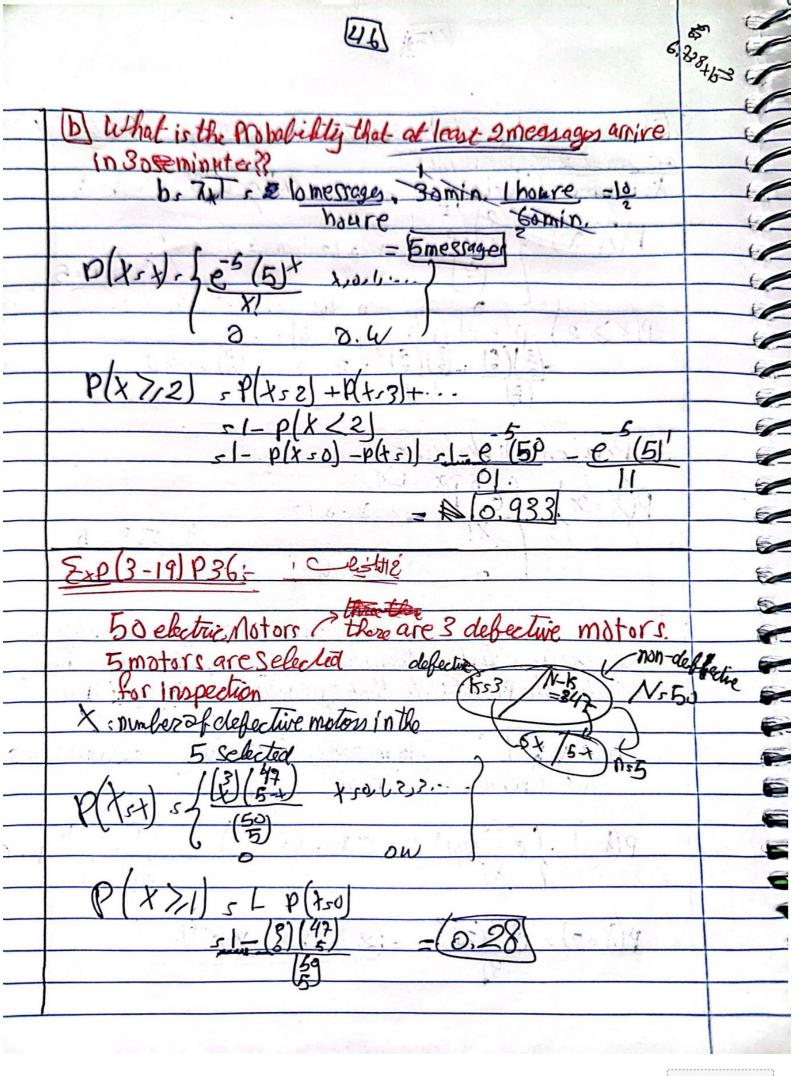


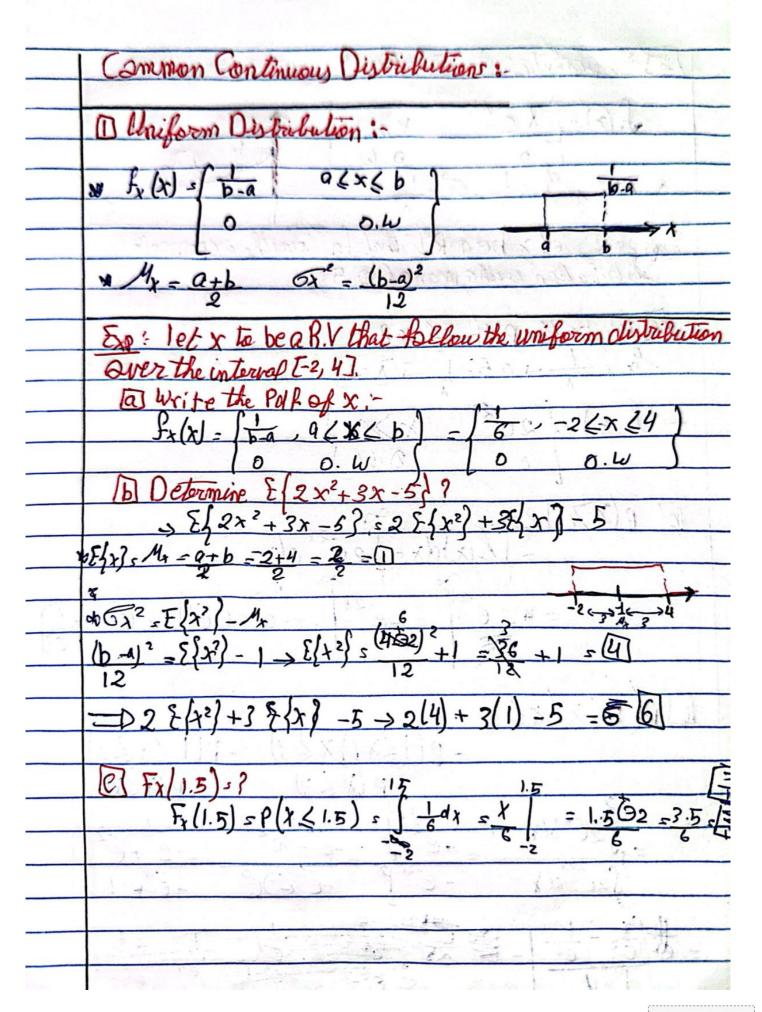


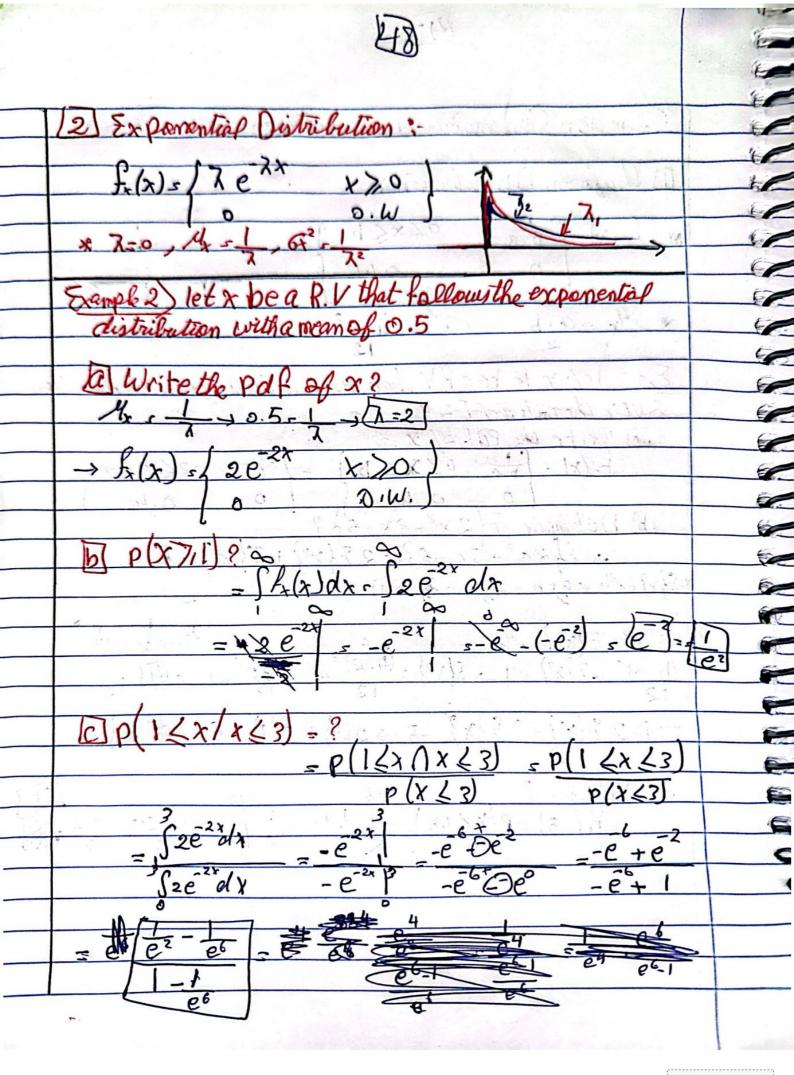


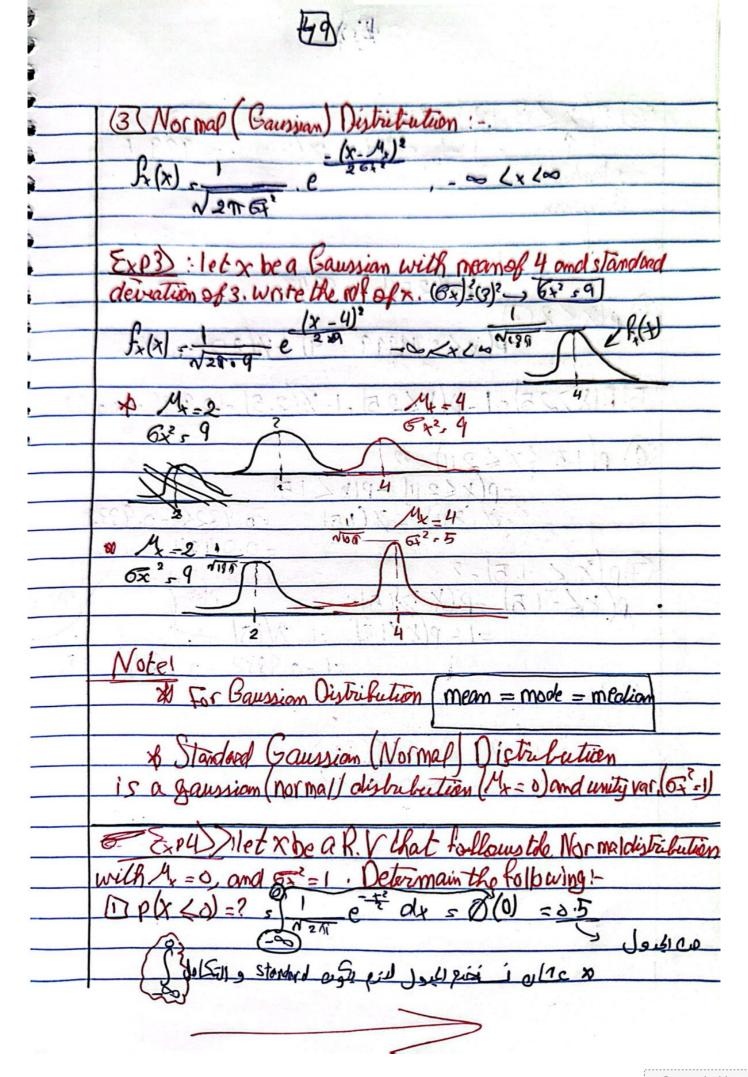


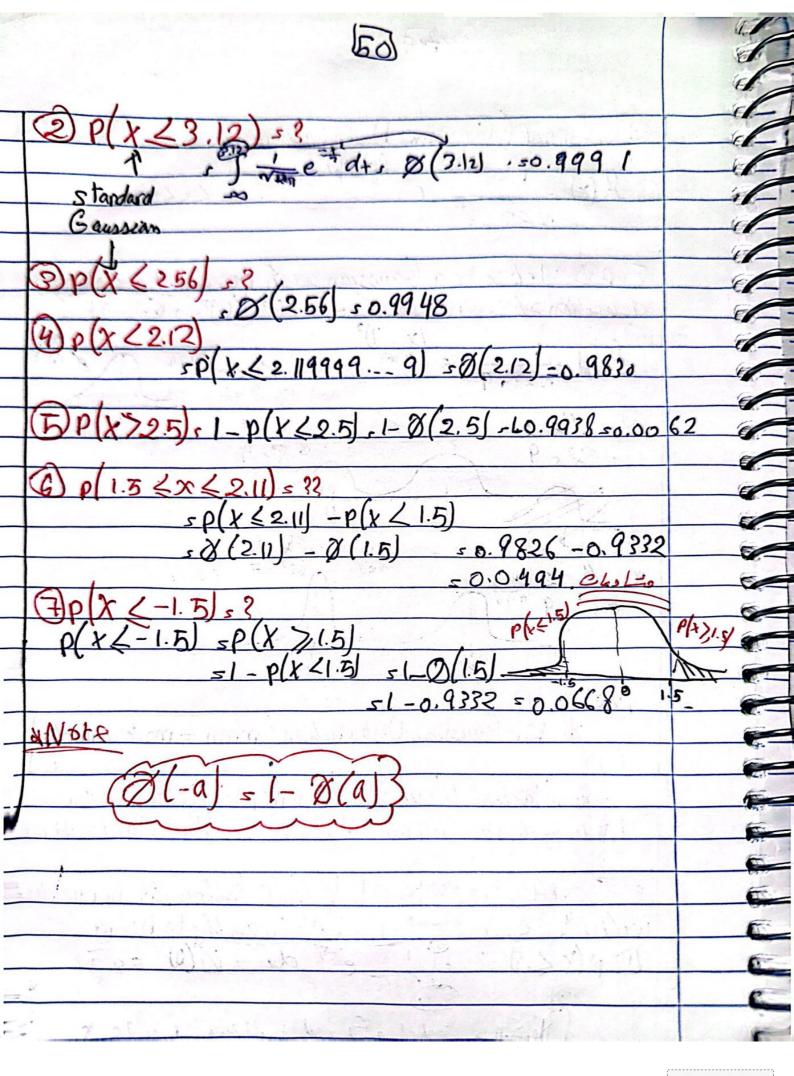


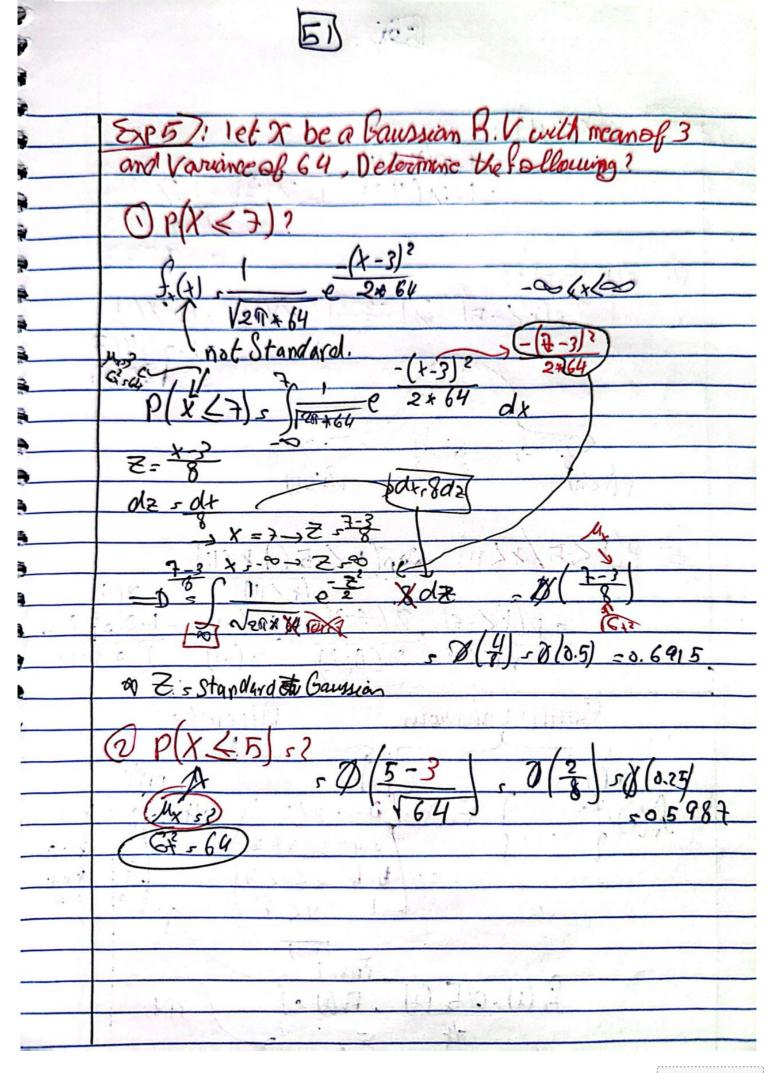


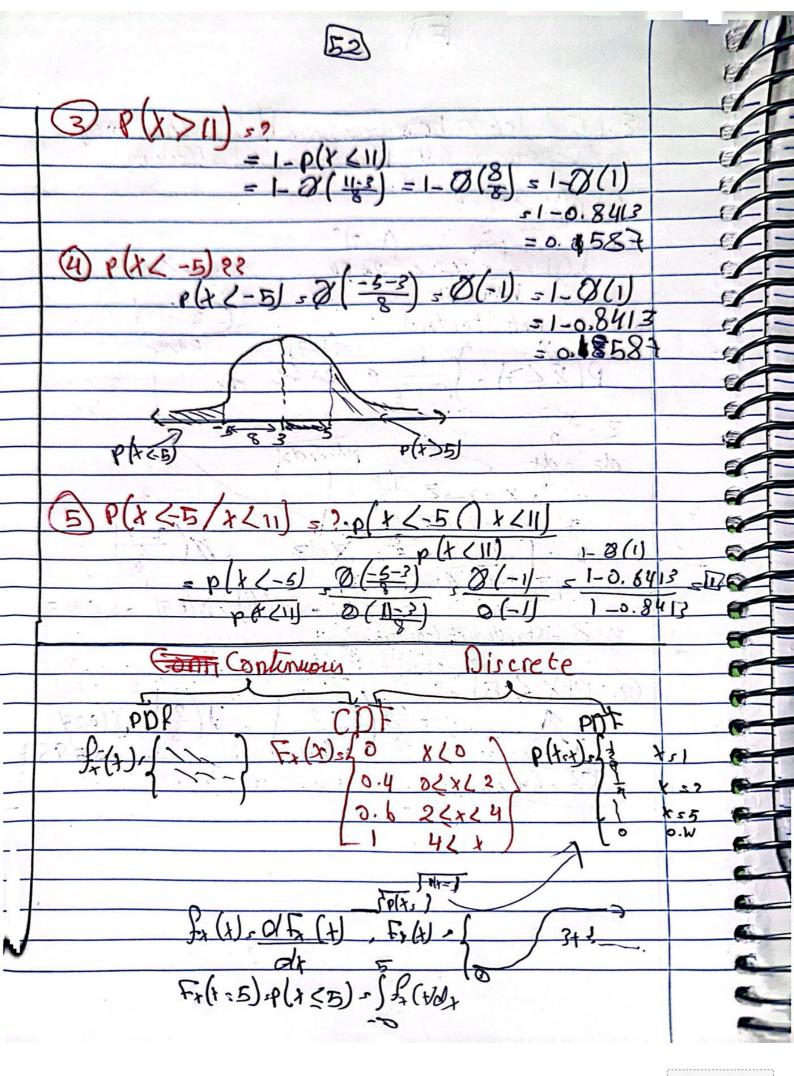


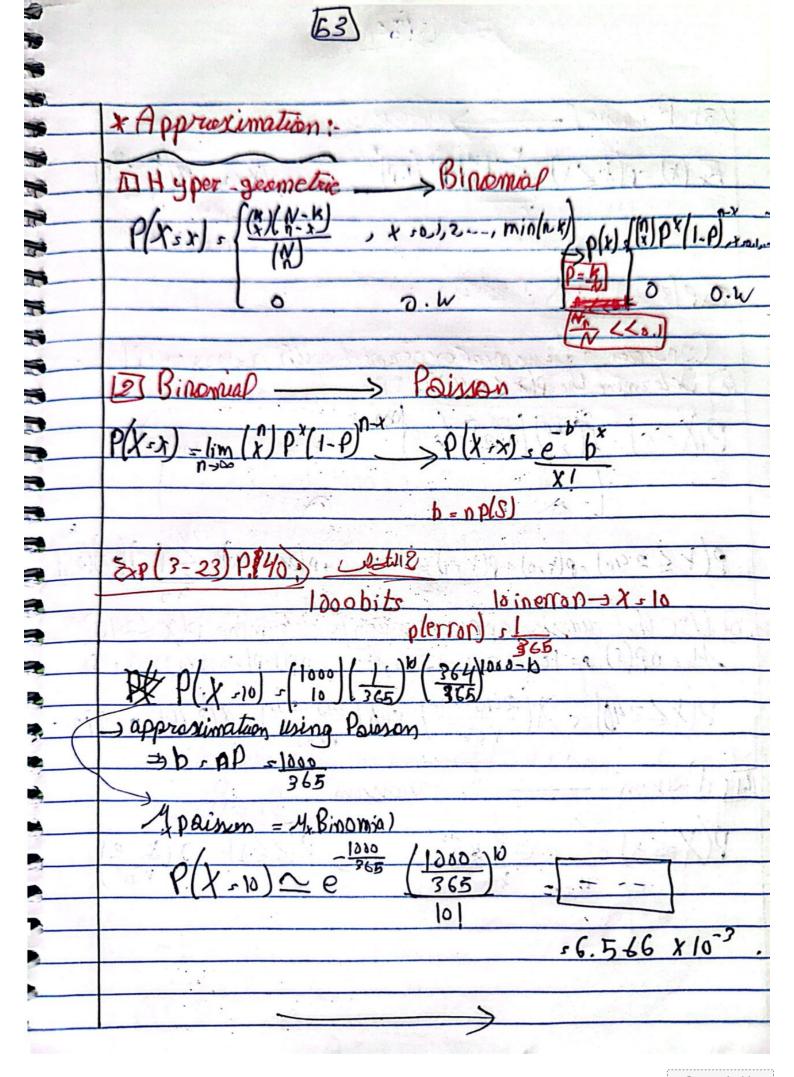


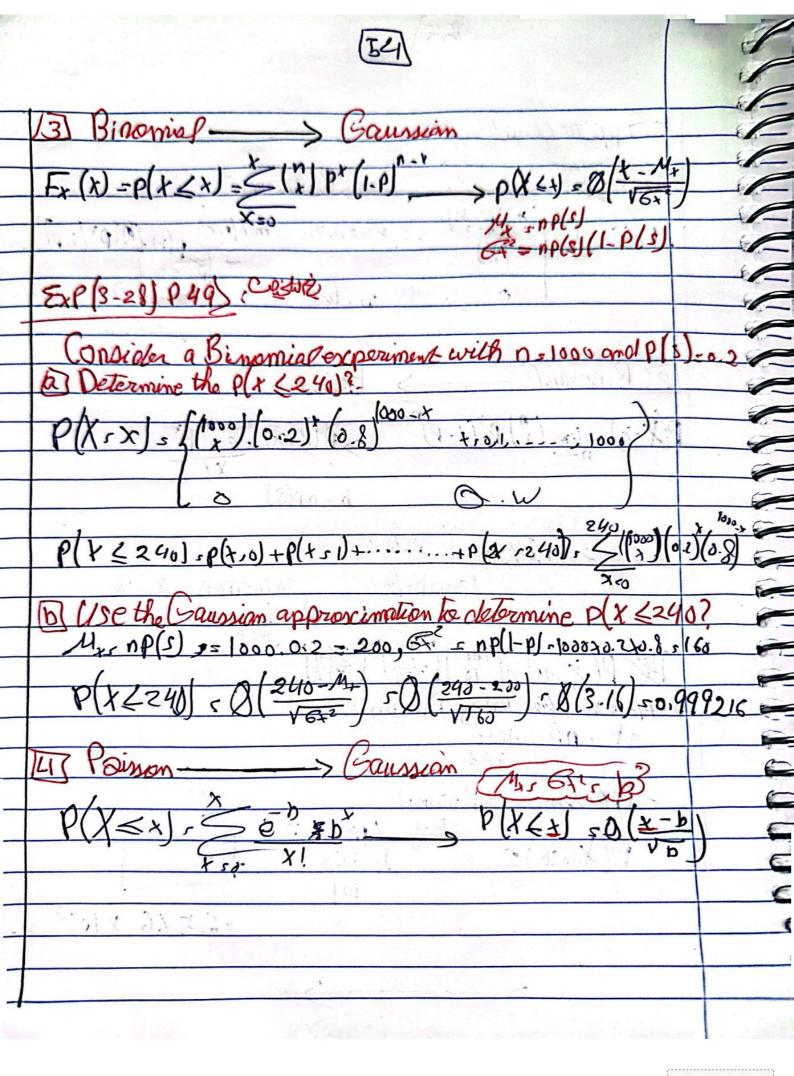




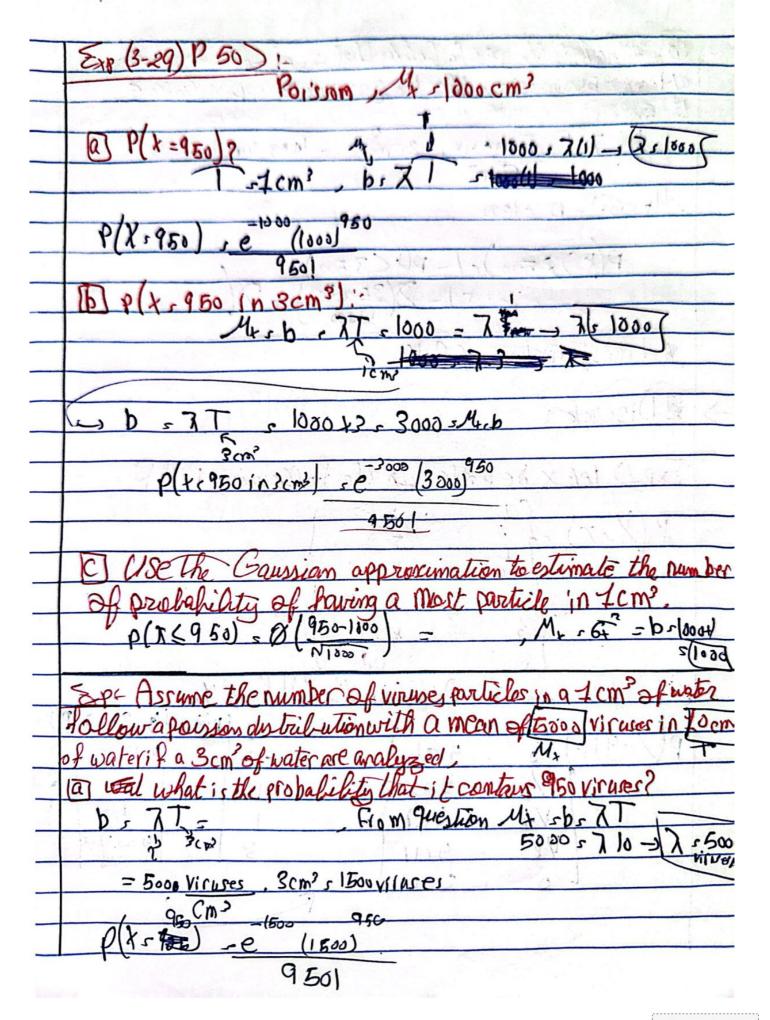


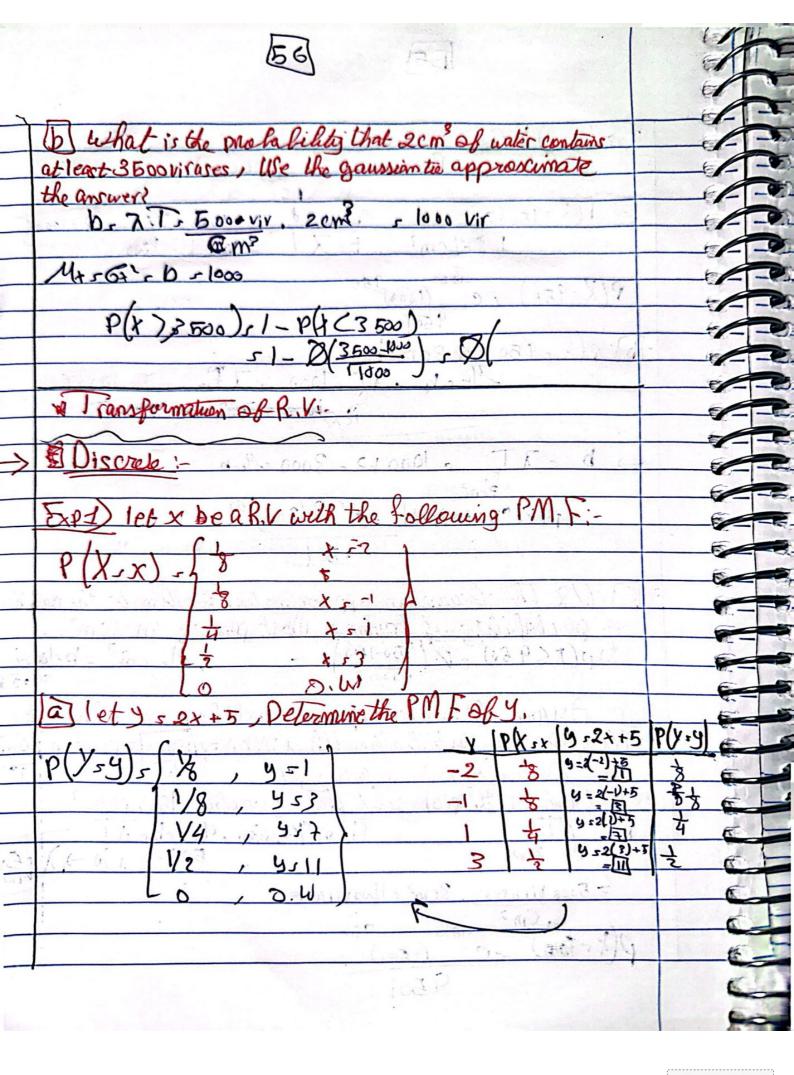


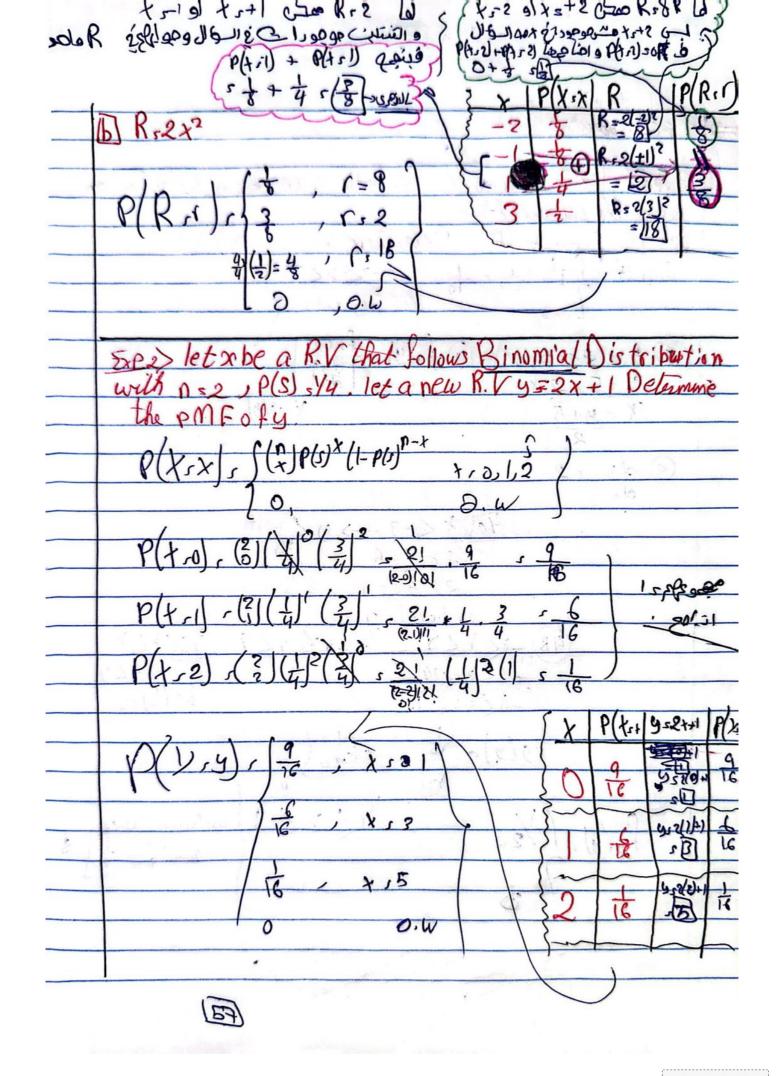


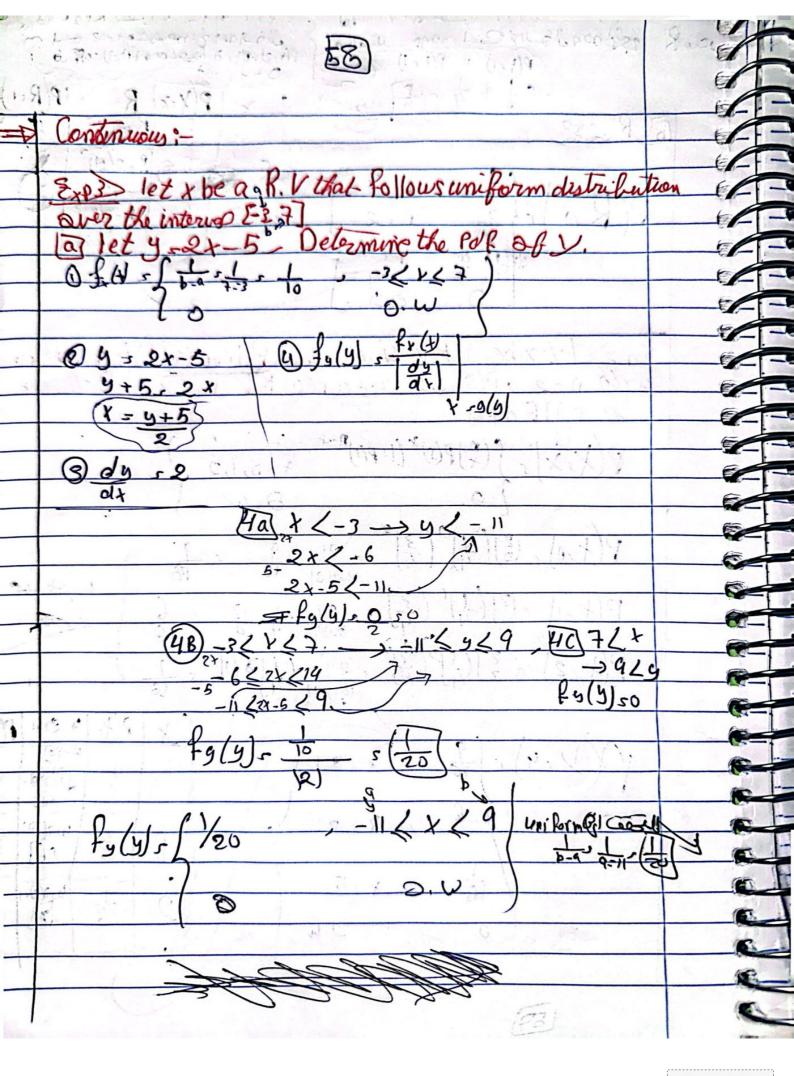


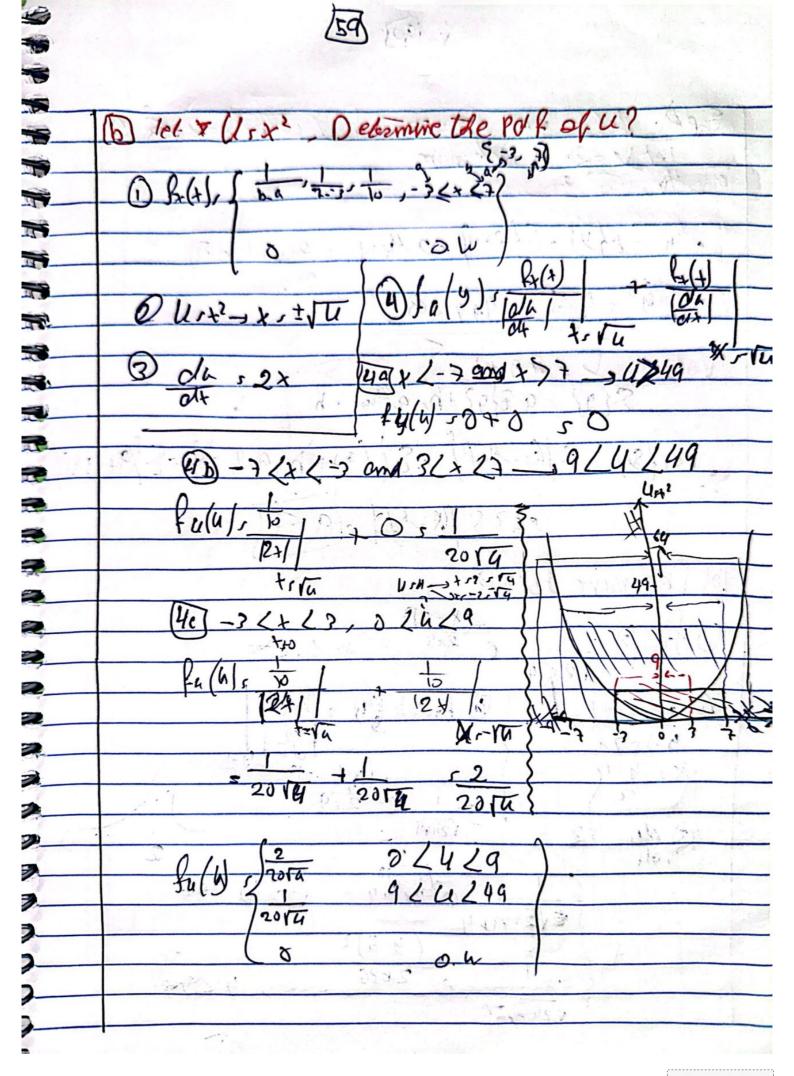


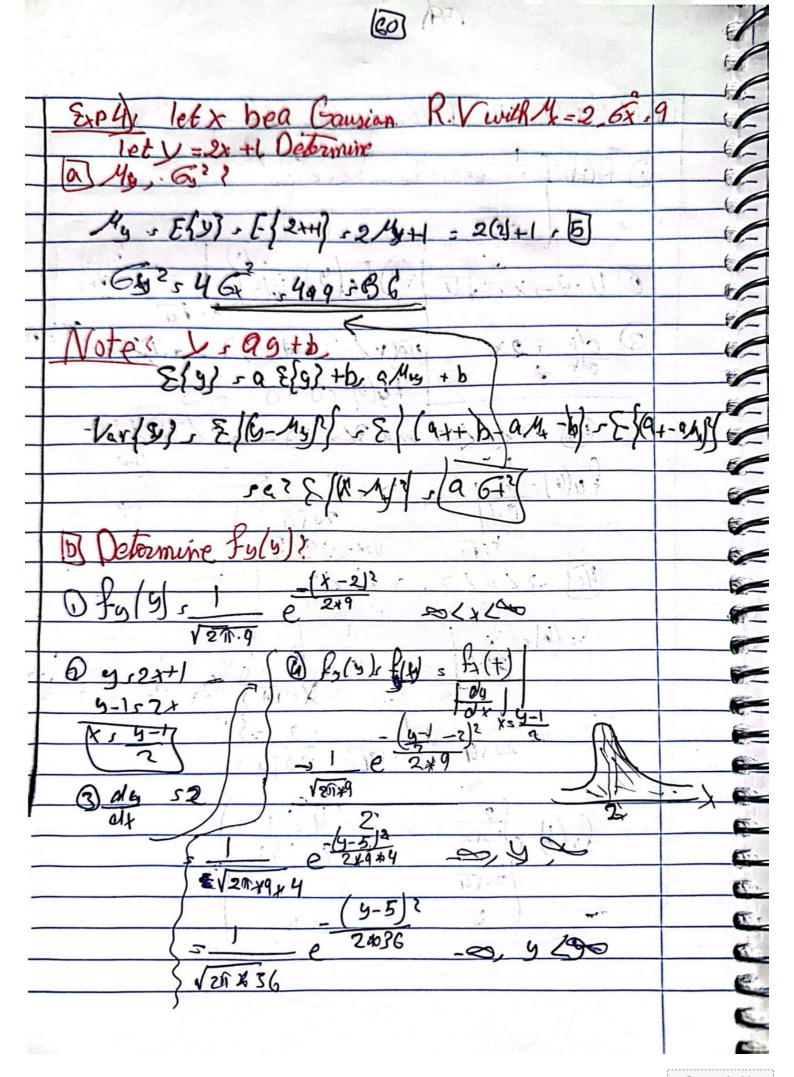






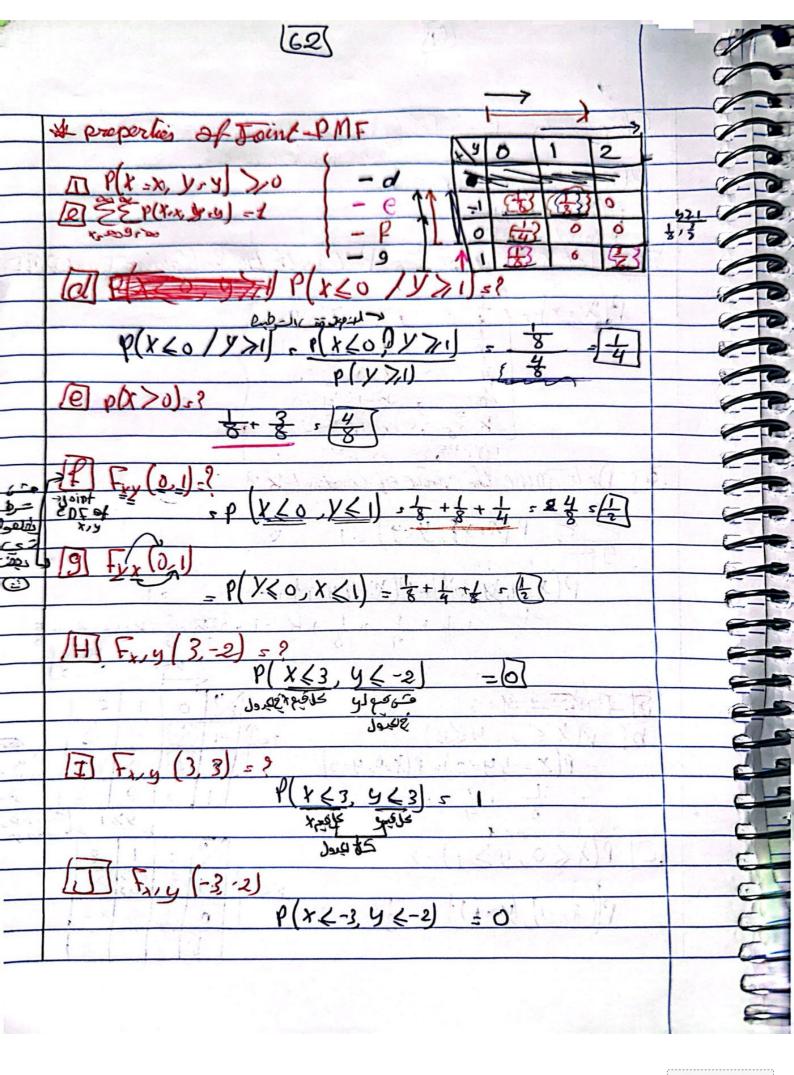


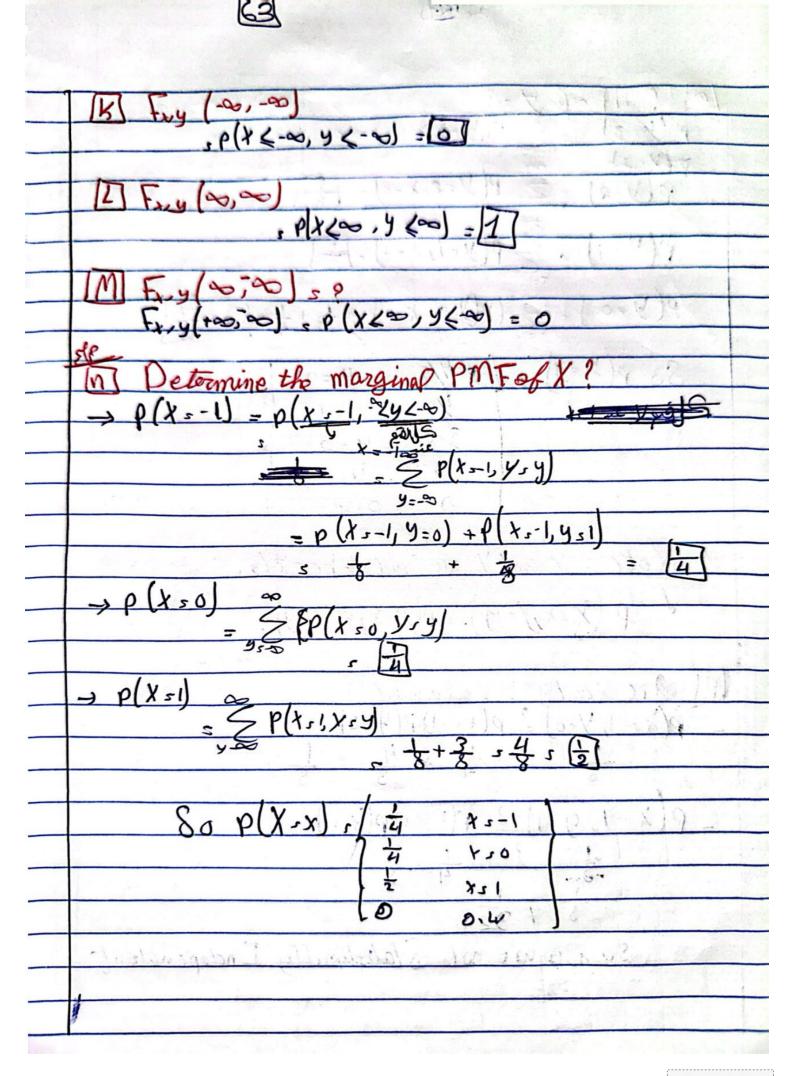


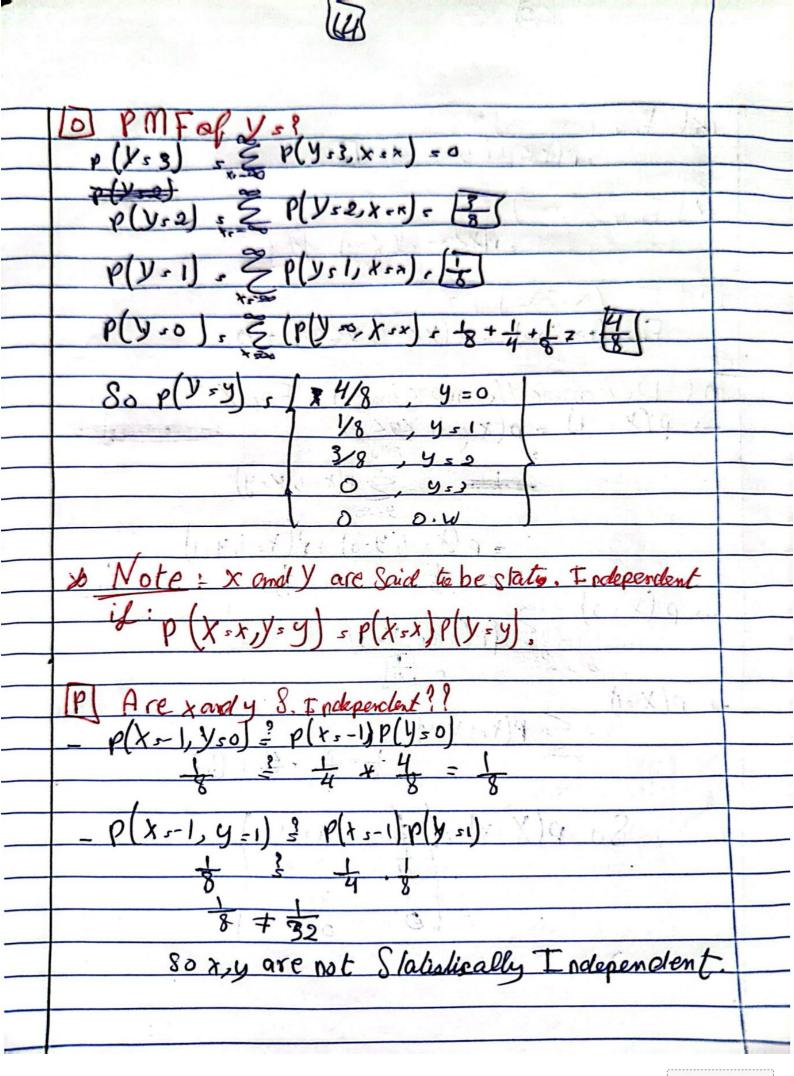


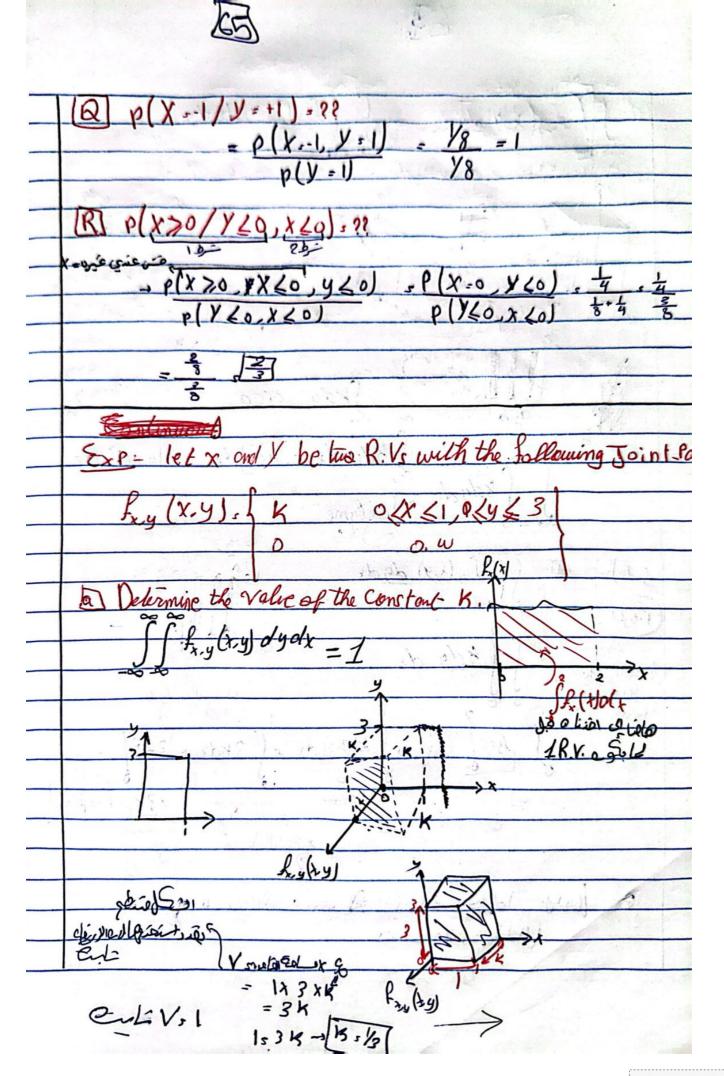


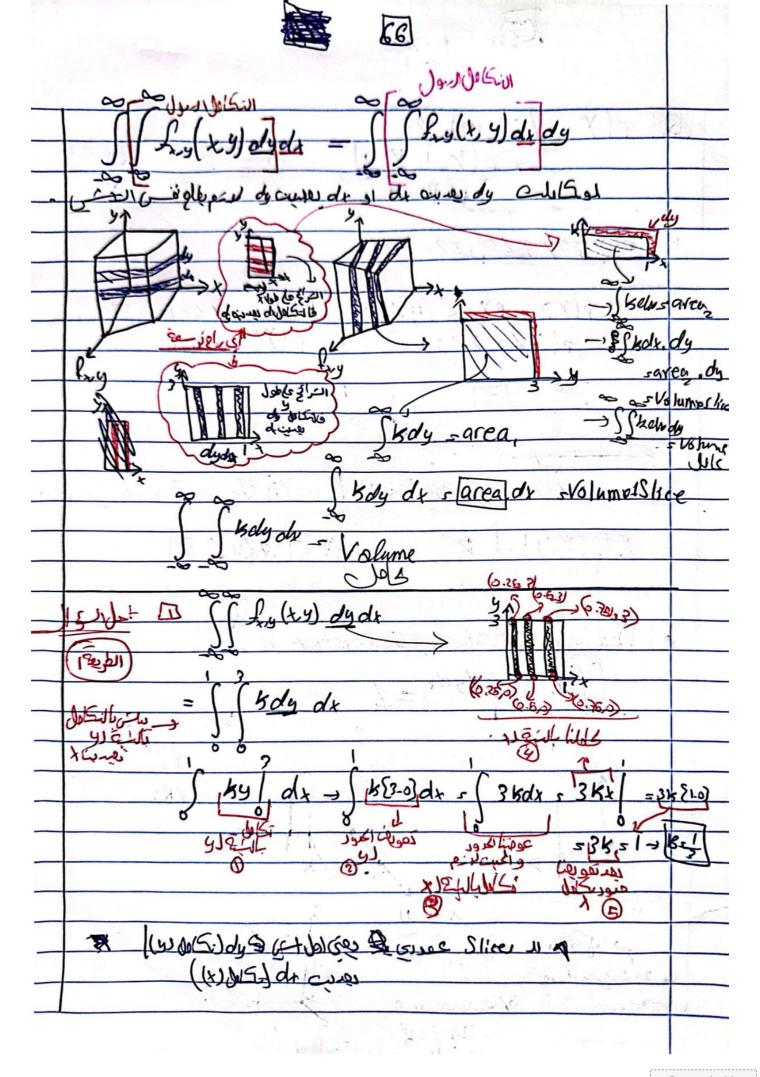
Chapter 31:- Probability Distribution	for more than
One Ronolom V	priable.
P(x=x, ysy, Ror-)	Sale VI VE THE TO BE
p(x=x, y=y)	1 1 de maria de la como de la com
Figipt - PMF	N. W. Janes
Exp. let & and y be two R.V. with to	he following Toint PMF:
P(x,x), & x=1, y=0	
x =-1, y=1	16/17/
¥ , X=0, Y=0	
18 x=1, y=0	5-10-110-1911
X 3 x = 5 4 = 2	
0 0 0 W	
[a] Determine the value of constant &?	7-0-11 y - 11 -
EP(X=x1, y=y)=1	A service of the serv
4=-8	
P(x=1, y=0)+P(x5-1, y=1)+-	19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8 + 8 + 1 + 1 + K 51	-18-4KD-1KC1-8
12 12 12 13 14 ESX 19	950 858
	190112
(b) p(x ≤0, y ≤0)=? x≤0	1 2 4 0
$= \rho(x = -1, y = 0) + \rho(x = 0, y = 0)$	0 (4) Q Q D.W=
- 1 +1/ 103 ()	asi 8 0 8 1
8 4 8	(منهوبورائ) د الالا
[C P(X < 0, 4 > 1) 52	2012
1, , , , , , , , , ,	1-18 B
P(X5-1), (Y 1) 1 2	0 40 00
	1 1/3 0 3/8

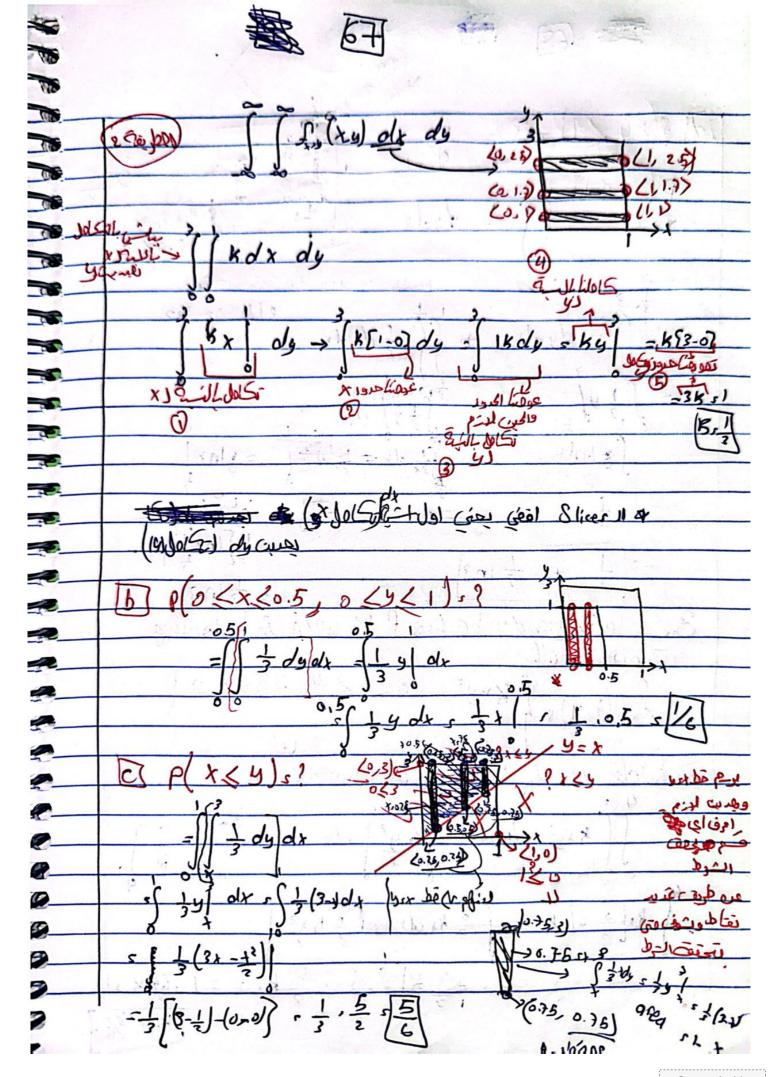


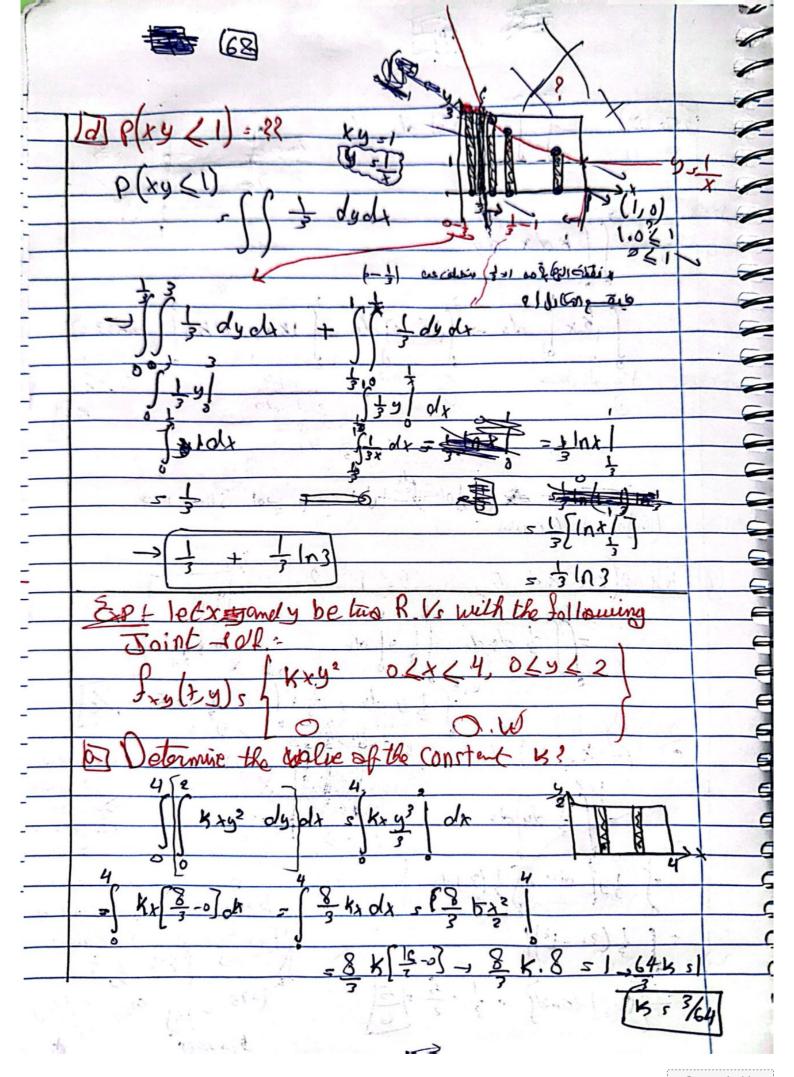


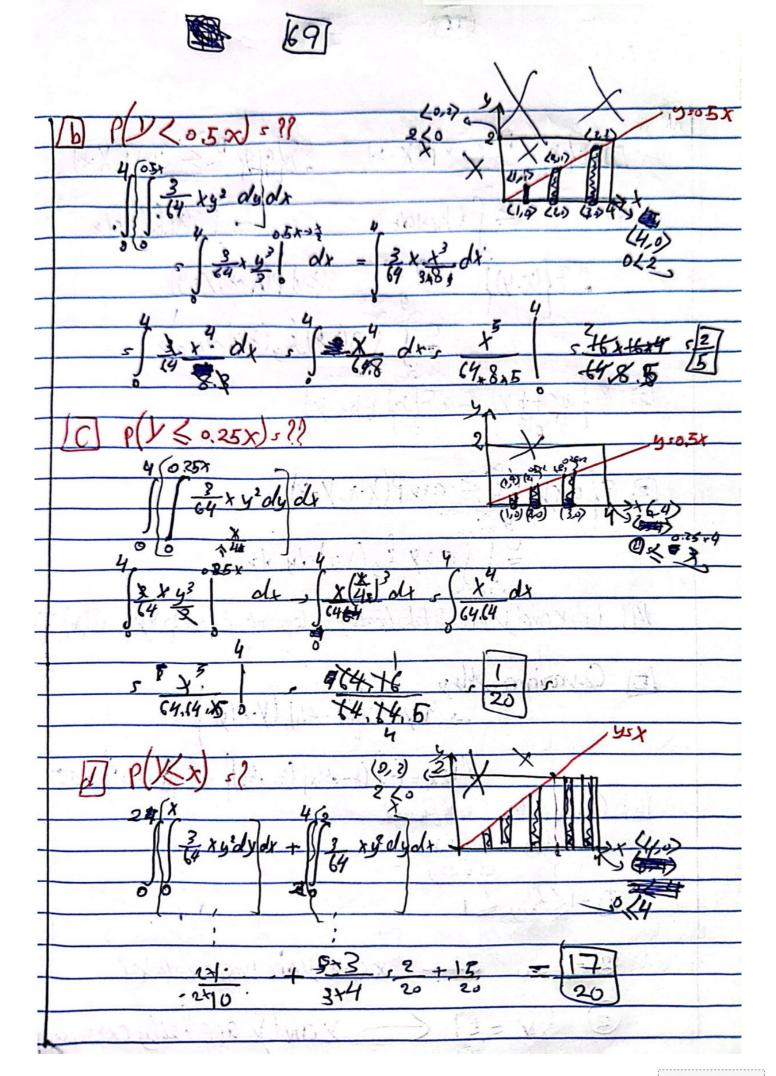


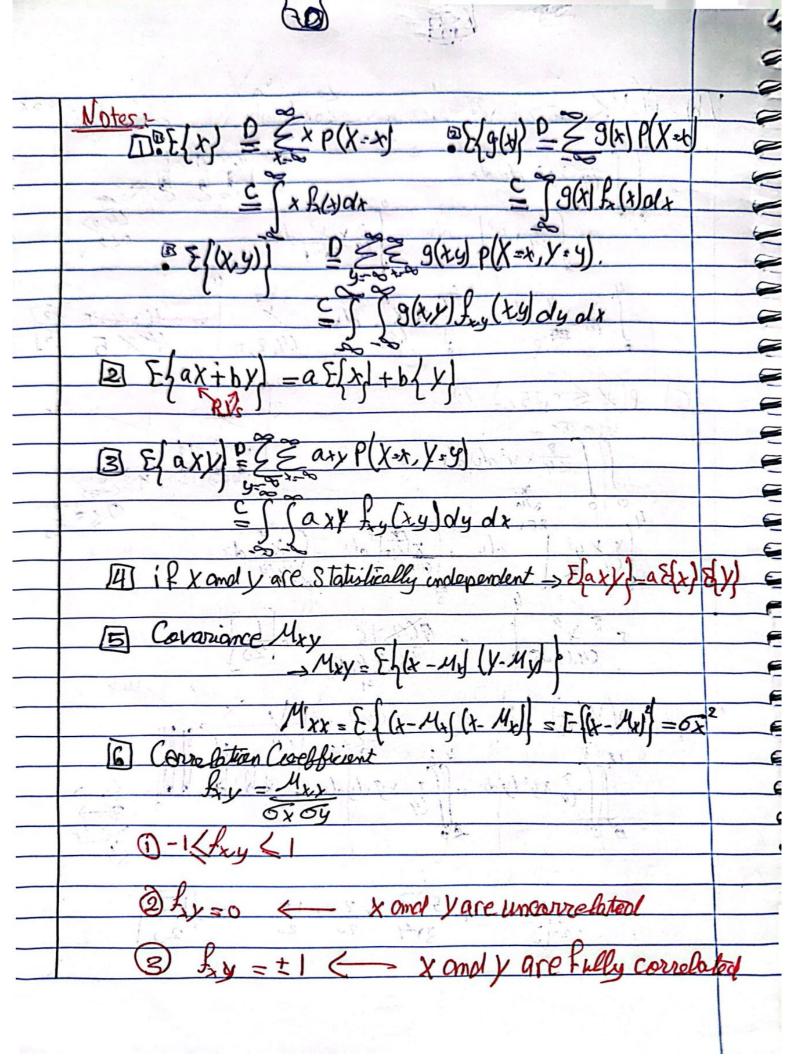


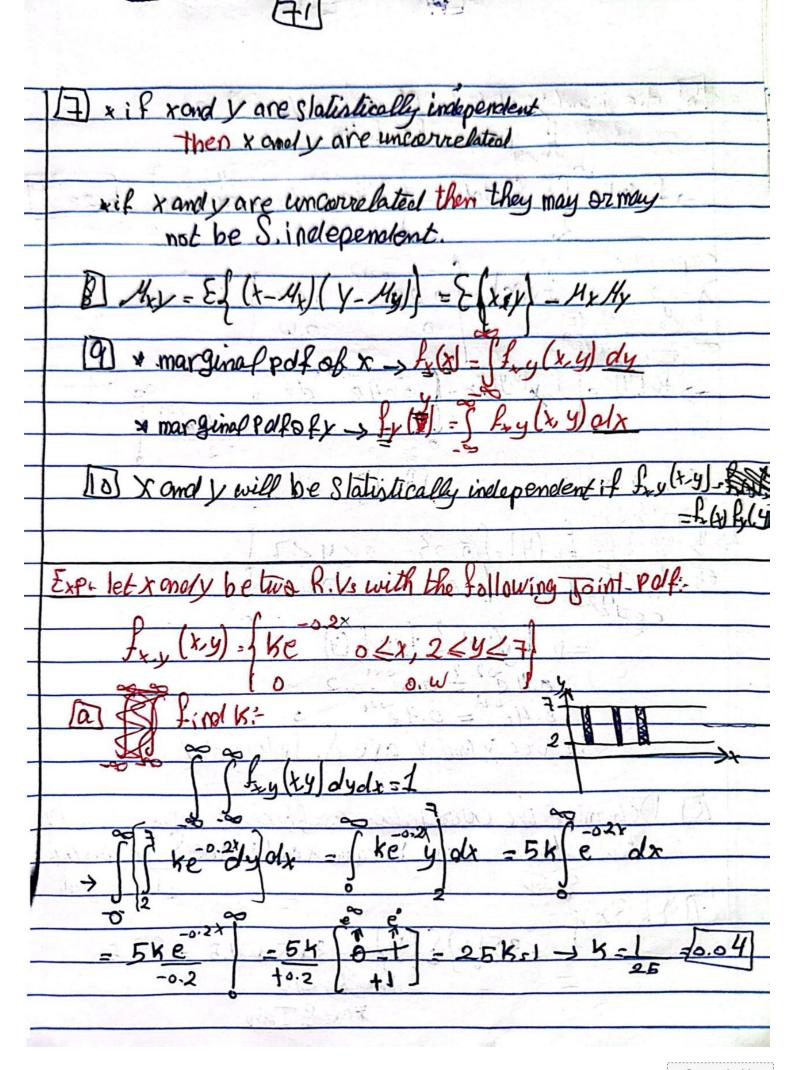


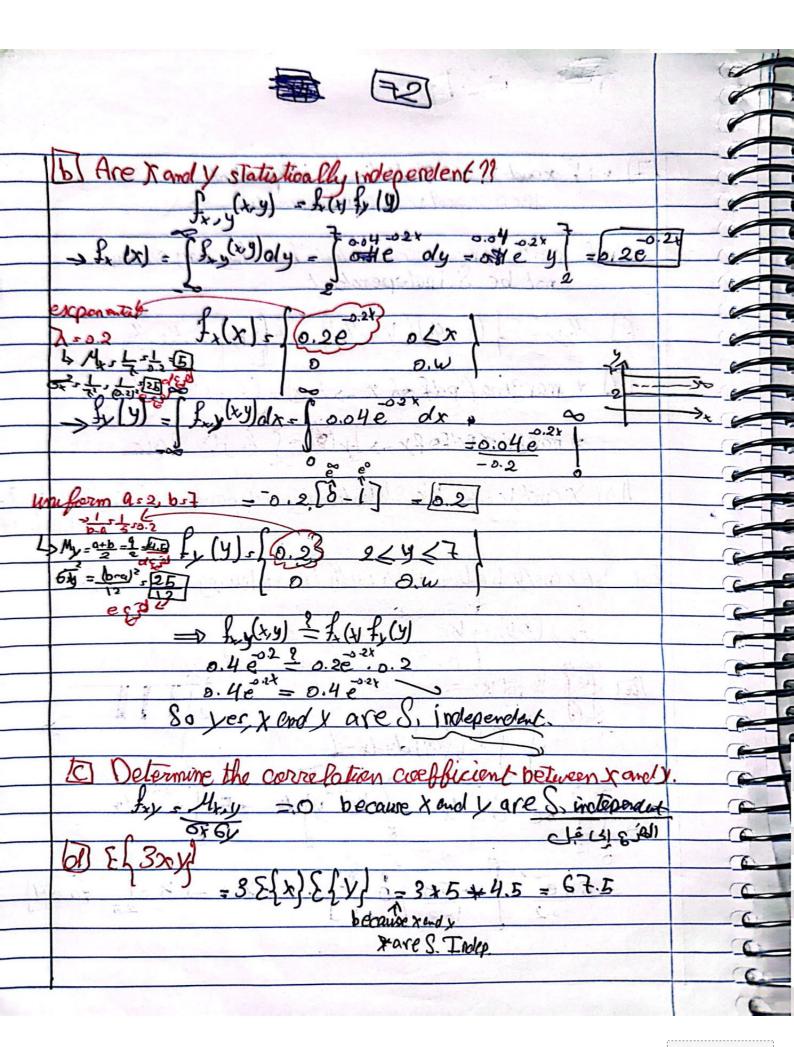




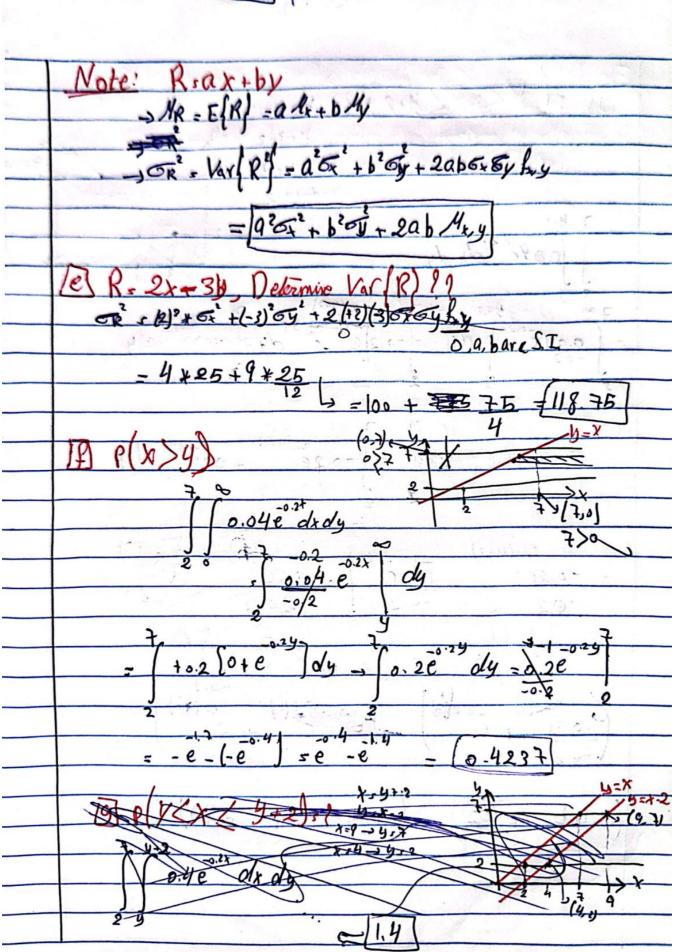


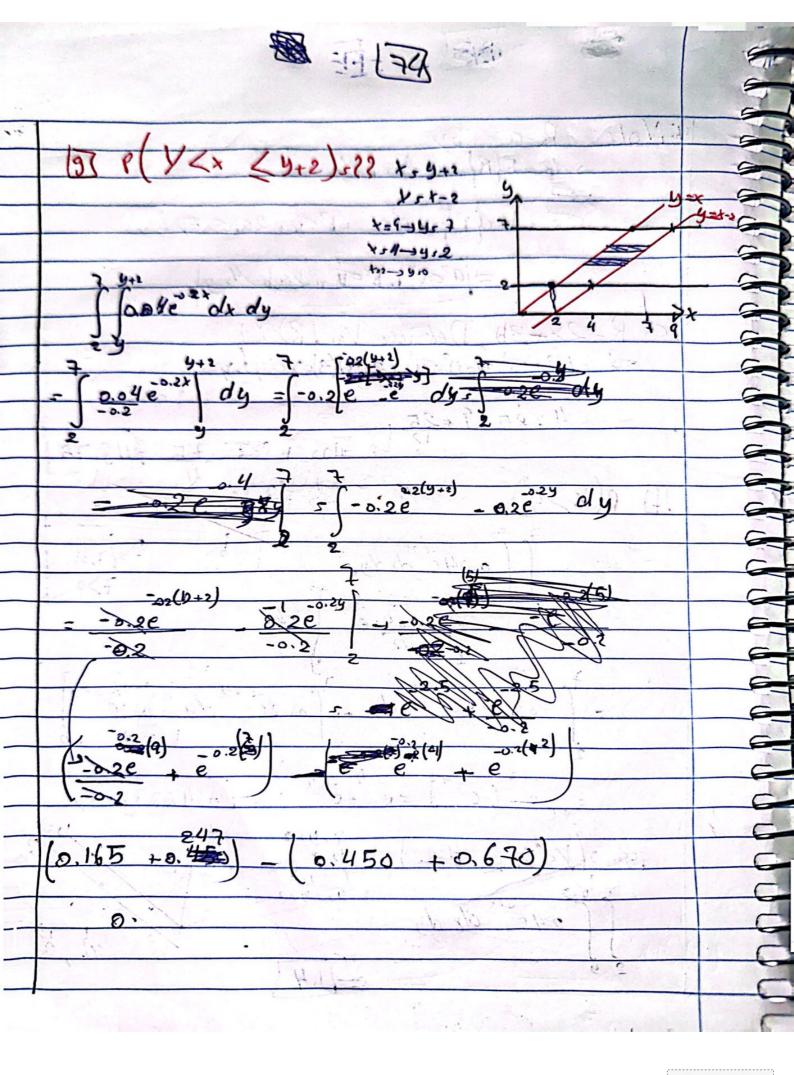












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