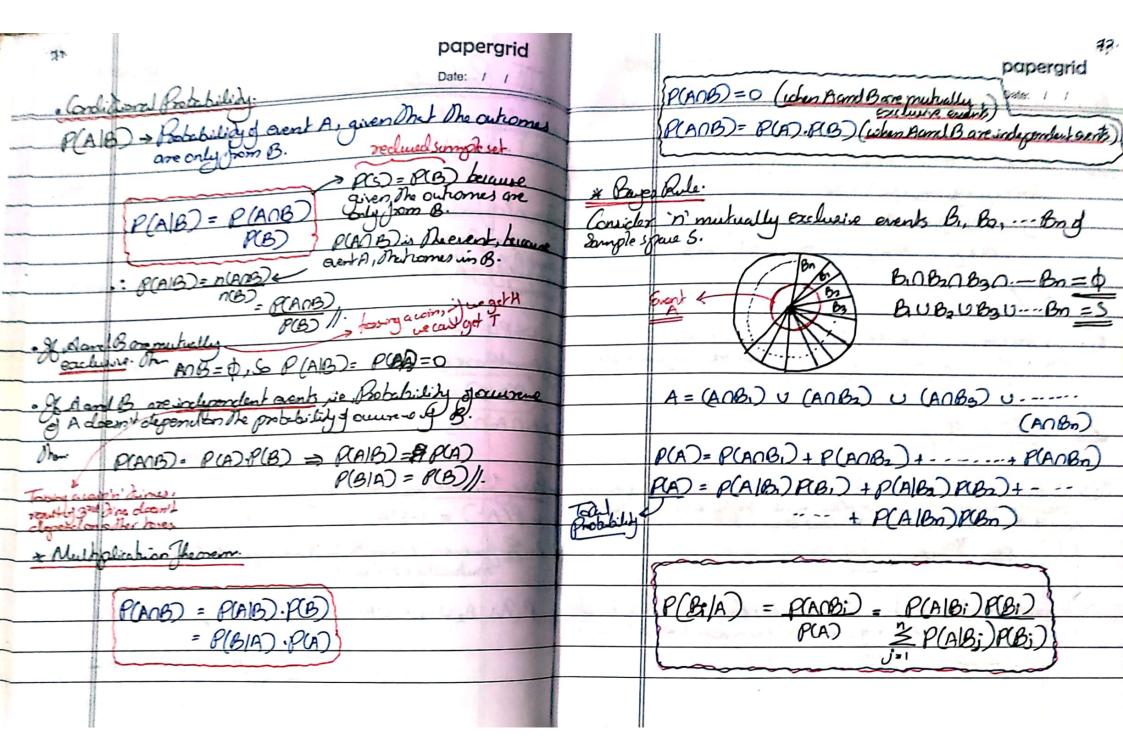
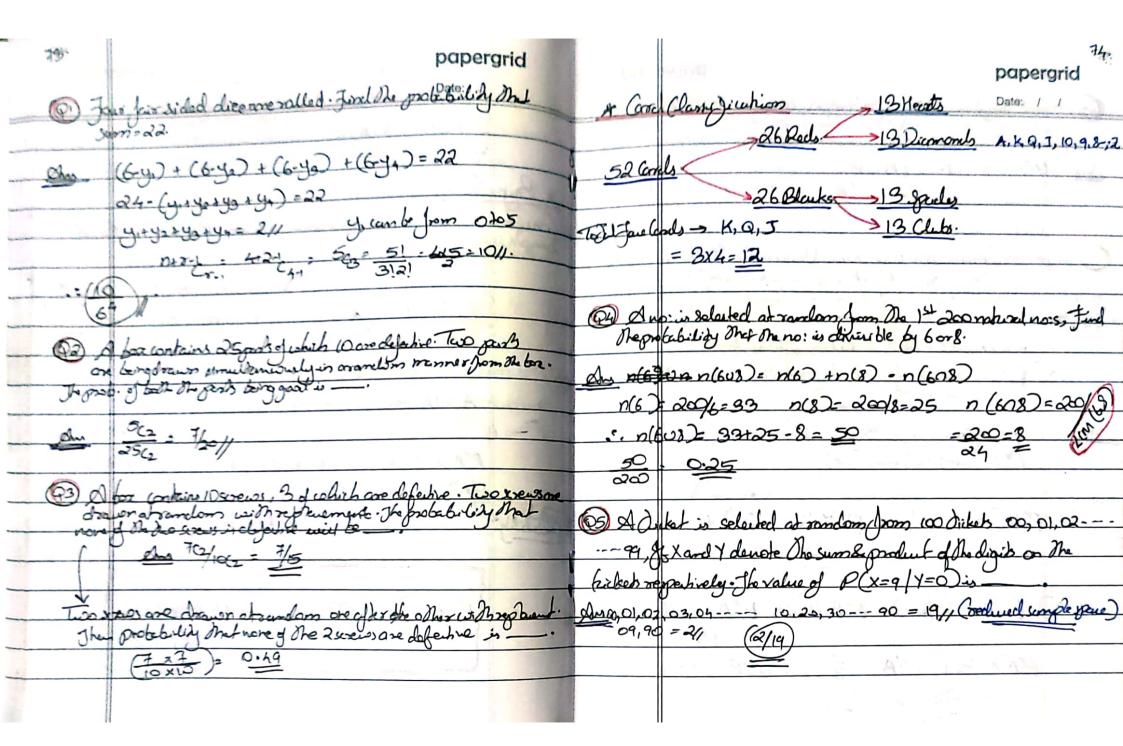
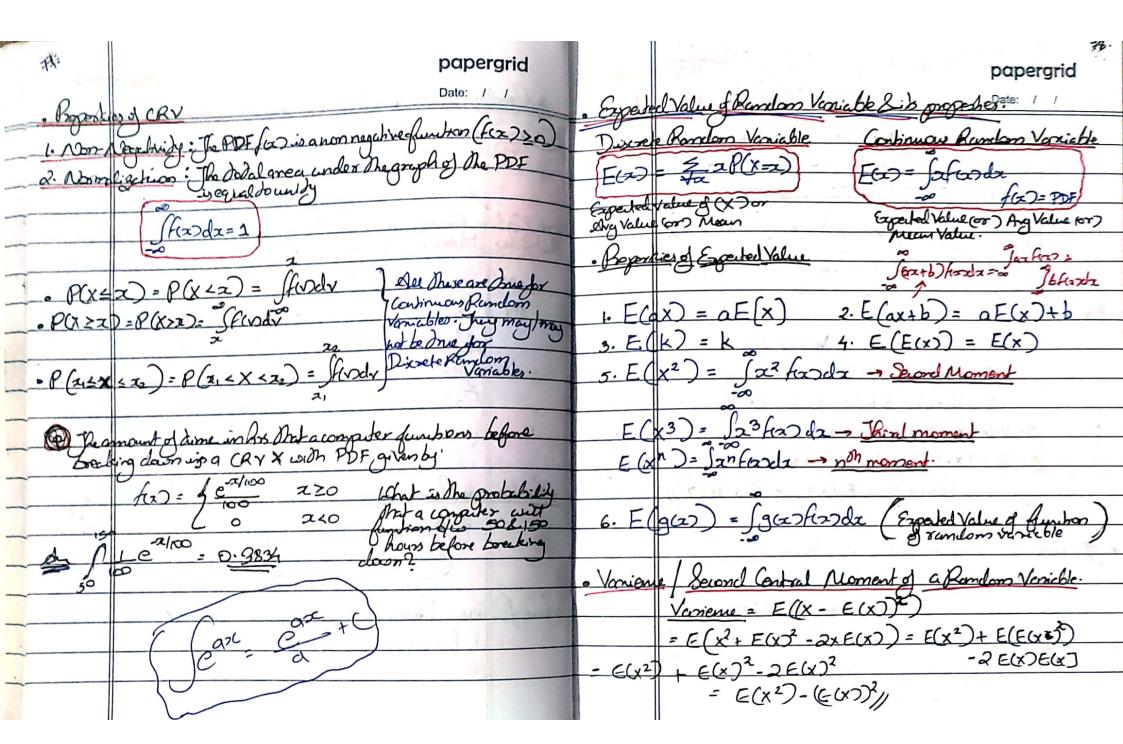
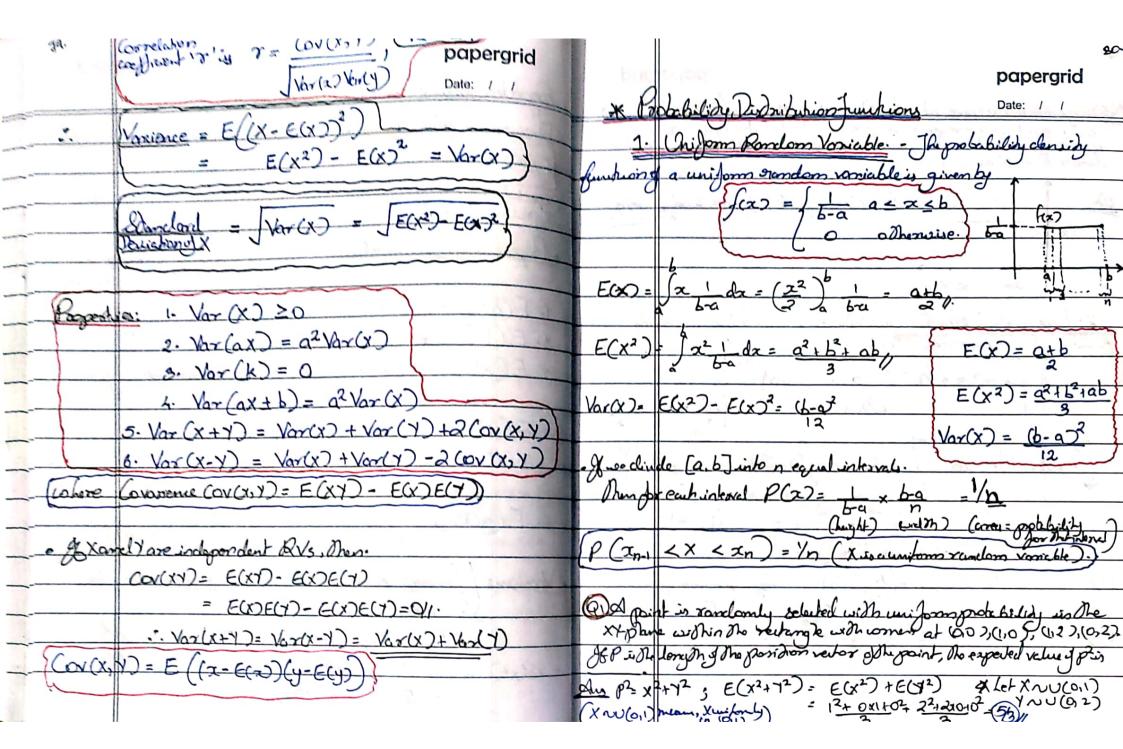
tier	papergrid
TIL	Poolabilety. Date: 11
Samoles	no - Set of all possible automes - Brotability - A The compte same
- Sient -	Subject of Sample face. finidely many outromes that one
	an event A is given by
anizala	1) it is I Rock to State P(A) = not obrank in A)
eivena san	De gave S, with each no: of points in S. There is no: PA I carled the J. A. Such that the following axioms of probability are
ant A of	of A. Such that The following axioms of probability are
Shisfred.	
1. 0484	D=1 2. P(S)=1 3. if ADB= \$ 10m A &Bore
A Amel	ore mutually exclusive. One mutually exclusive.
PCAU	3) = PRAZHRBZ
	1 Azo A: = O, Ohen P(AUAZUAZUAn)
	= P(A)+P(A2)++P(An)/.
· Basic, Th	orems in Bok bility
I. BCA	-) = 1 - P(A)
2. 4	whally exclusive.
	whally exclusive.
PAIL	AU UPD = 3 P(Ai) - 5 P(Ai, AA)
	COA CALNO
	+ & P (A:, O Aiz O Aiz) +









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In proutice, the exponential distribution offen conserce the distribution of the amount of time until some apertic event ours.

Eg1: Hamount of Sime until an cart quake aurs.

Egil: The amount of time until a new war breaks, out.

8,3: The cornount of dime until a delephone call you receive dumont

The langth of the shower on a tropical ward during ruing season by array and will distribution with personaler 2 distributed more than in minutes. What is the probability that a shower will lost more than 3 minutes?

M. fair Sale-22 220 7.2. Shadade 6-22 = 1

3. Pai on Random Vaniable. The probability mass function of Bisson. R. Vingirenby.

 $P(X=x) = e^{-\lambda} \lambda^{2}$ $2 = 0, 1, 2, \dots (dure te Ax)$ $\lambda = parameter (\lambda > 0)$

ZX=2)=1 = Ze-72 = e-(1+7+32-1-1)-e7.e7.

