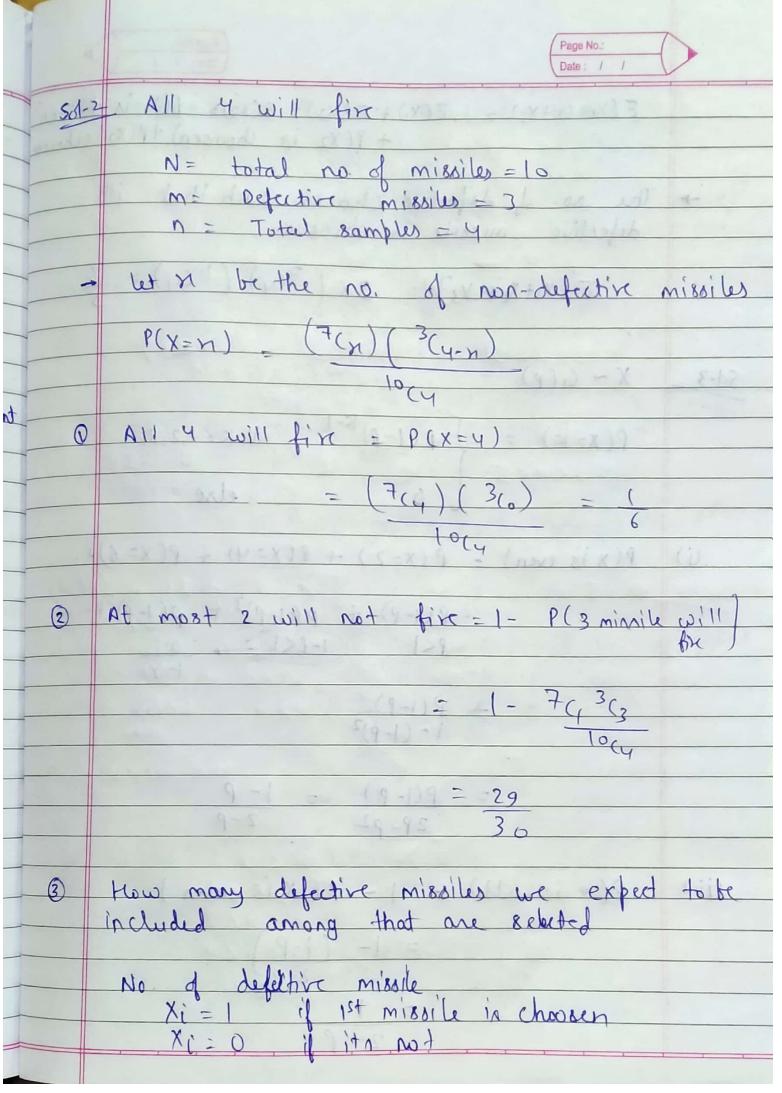
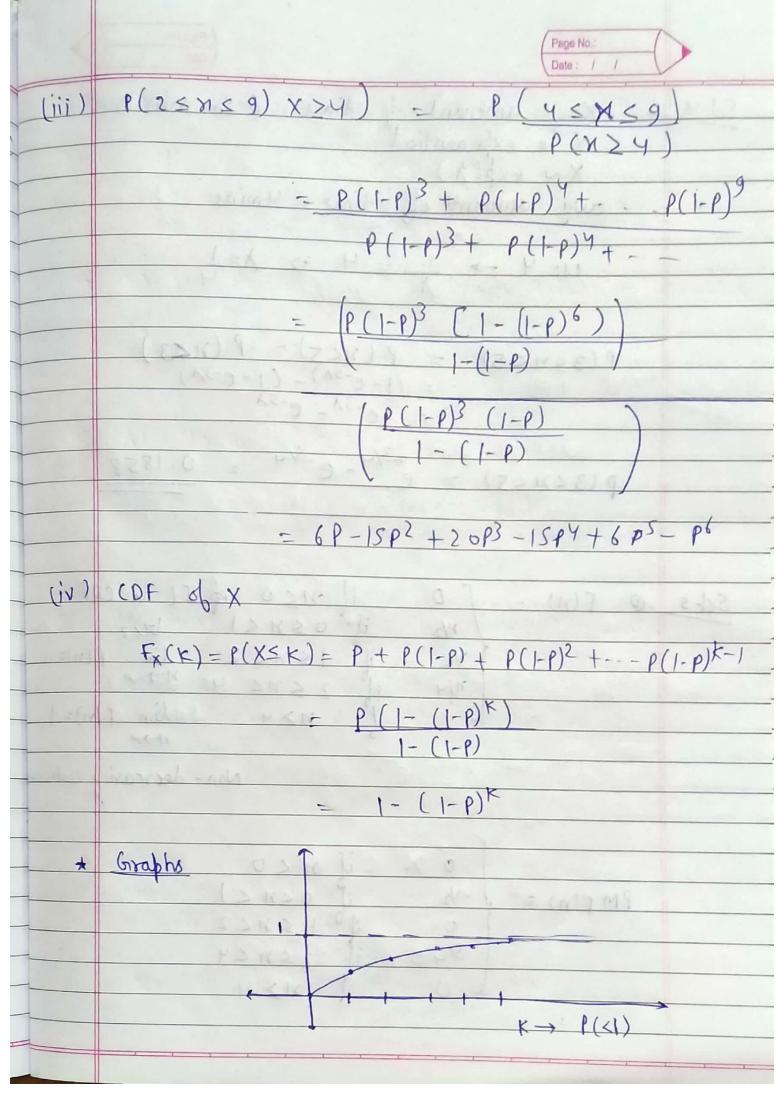
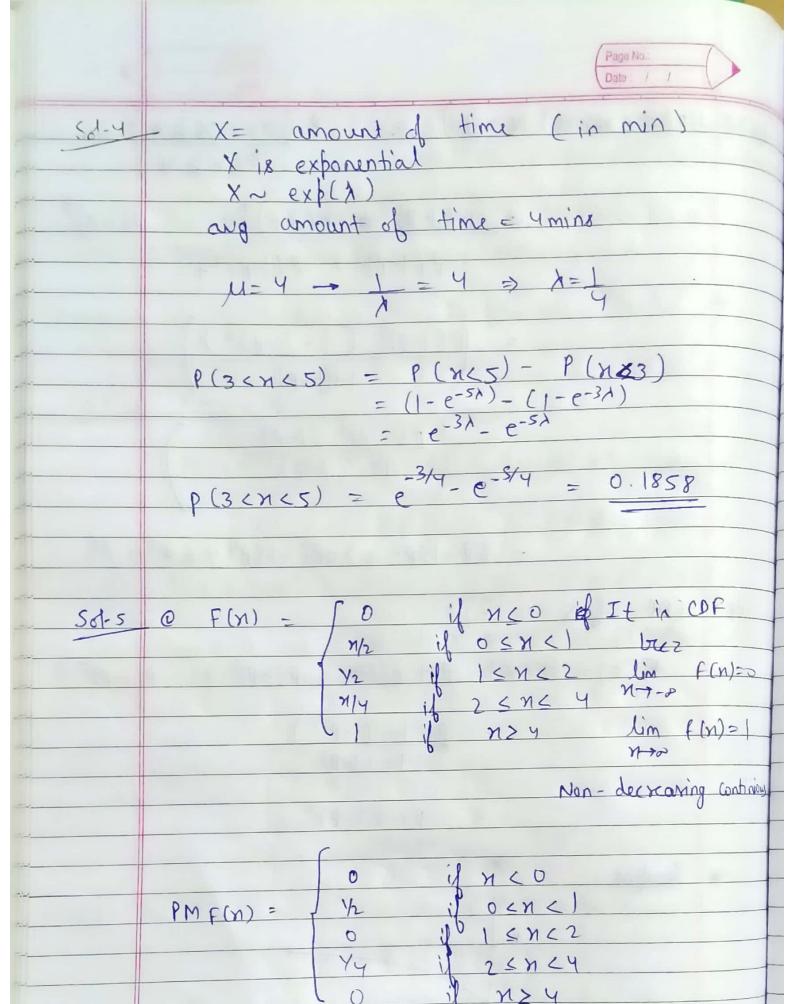
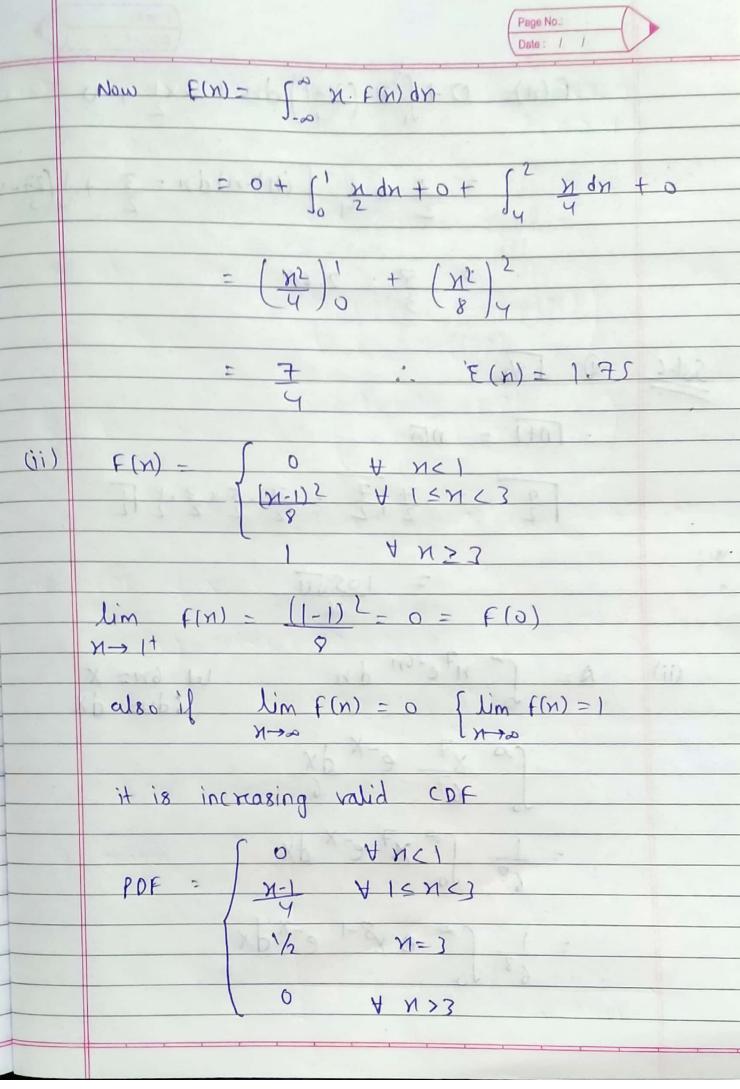
| | Tutonal - 4 Page No.: Date: / / |
|-------|--|
| on- | Krishna Pandey |
| | UZOCSIIO |
| ACT - | the as blide the with this decided as a second |
| 501-1 | - N= Total tableta = 12+4=16 |
| au . | m= narcotic drugs = 4 |
| nis- | n = Total samples = 3 |
| | let n be the number of narcotic tablet selected in the sample |
| | since selections are made without replacement |
| | n Hypengeometric (N=16, m=4, n=3) |
| | P(X=N) - (Y(N)(12(3-N)) |
| | 16C3 M201/23 |
| o | 31.0 |
| of 2 | Now, P (traveller arrested) |
| | = 1- p (traveller not arrested) |
| | = 1 - P(X=0) |
| *** | -1- (4(0)(12(3) |
| (ro | 16(3 |
| 72 | |
| ** | $= 1 - (1) (12 \times 11 \times 10)$ |
| 7) | - 68 |
| 72 | 16 XIS X/Y 112 |
| 7 | 6 |
| 3 | |

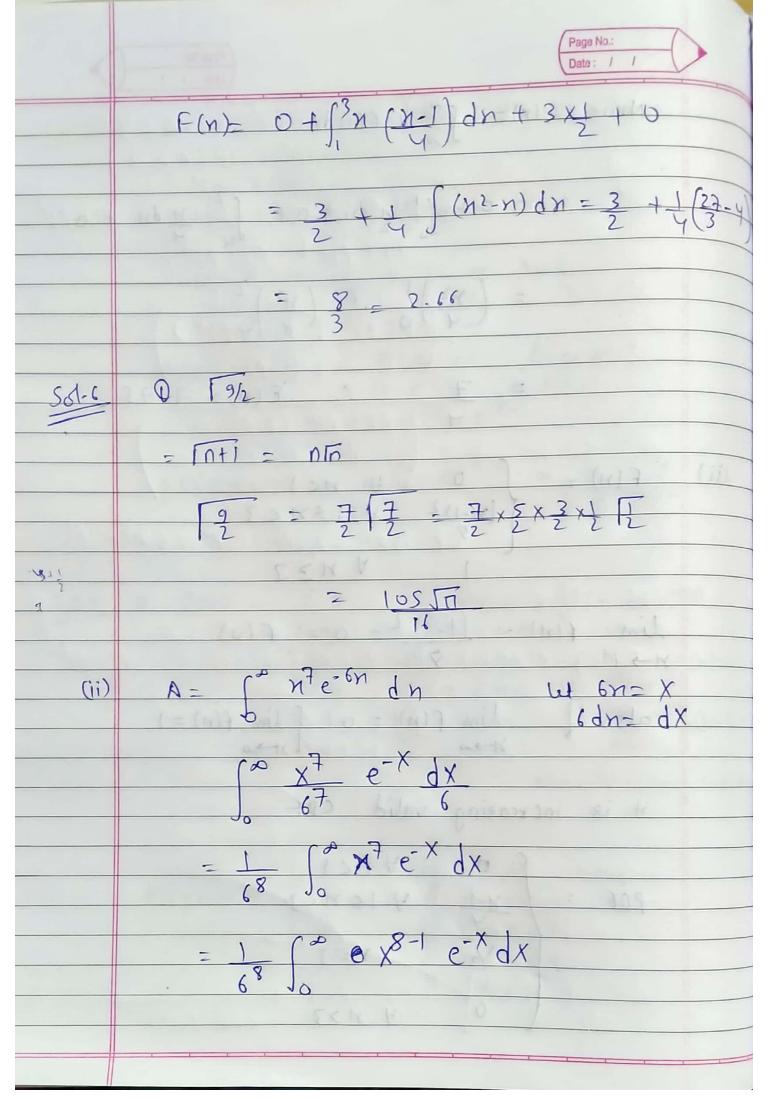


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|----------|---|
| | E(X1+X2+X3) = F(X1) + E(X2) + E(X3) = P(X1 in chaosen) + P(X2 in choosen) + P(X2 in change |
| → | The no. of defective choices such that ith defective missile in chooses. |
| d insi | E(X1+N2+X3) = 3x (7cy) (10cy) = 6 |
| SA-3 | $X \sim G(P)$ $P(X=K) = \int P(1-P)^{K-1} + K = 1,2,3,$ |
| | l o else |
| (j) | $P(x s even) = P(x=2) + P(x=4) + P(x=6) + -$ $= P(1-P) + P(1-P)^{3} + P(1-P)^{5} + -$ |
| 7 20 | P(1-P) 1-(1-P) ² |
| | $= \frac{P(1-P)}{2P-P^2} = \frac{1-P}{2-P}$ |
| (j;) | P(x 8 odd) - 1 - P(x 8 even) = $1 - (1-P)$ = $1 - (1-P)$ = $1 - (1-P)$ = $1 - (1-P)$ |









| | Page No.: Date: / / |
|-------|---|
| | = 1 8 - 71 - 0.003 |
| (jii) | $8(5,9) = 59 - 4! \times 8!$ $5+9+ 3!$ $= 0.000155$ |
| (iv) | $A = \int_0^1 x^{\frac{3}{2}} (1-x)^9 dx$ |
| | A = B(8,10) = 1810 |
| | = 719! |
| | = 0.00000514 |
| | |
| | |
| | |