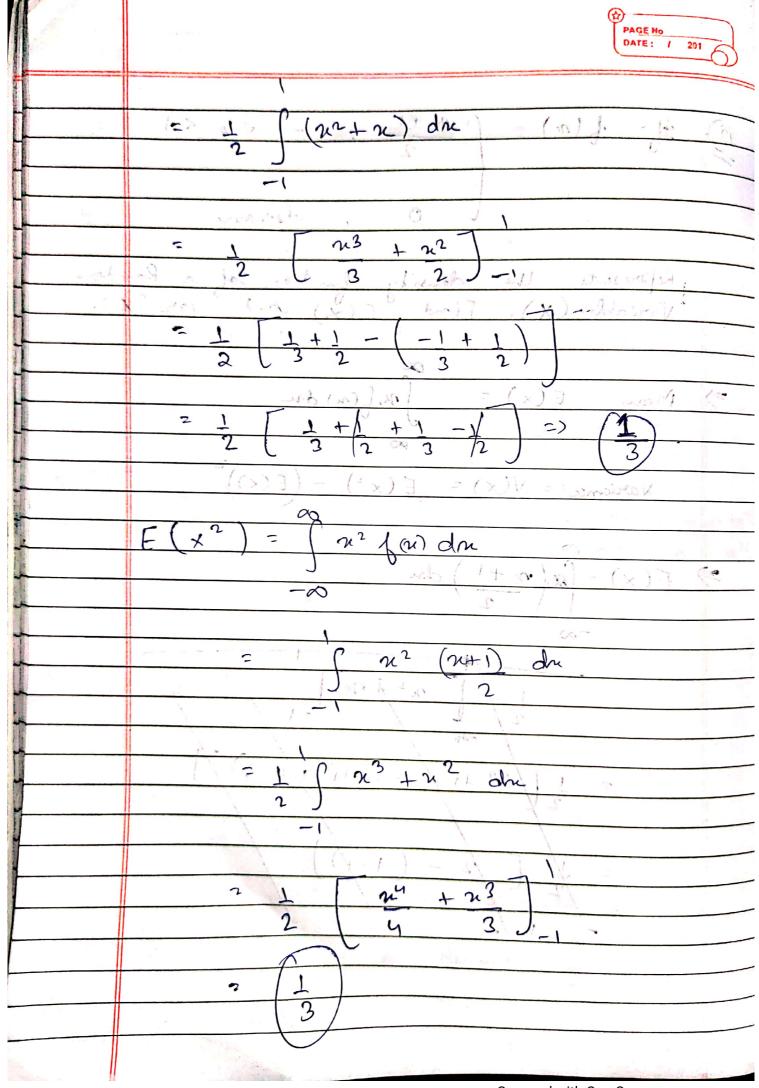
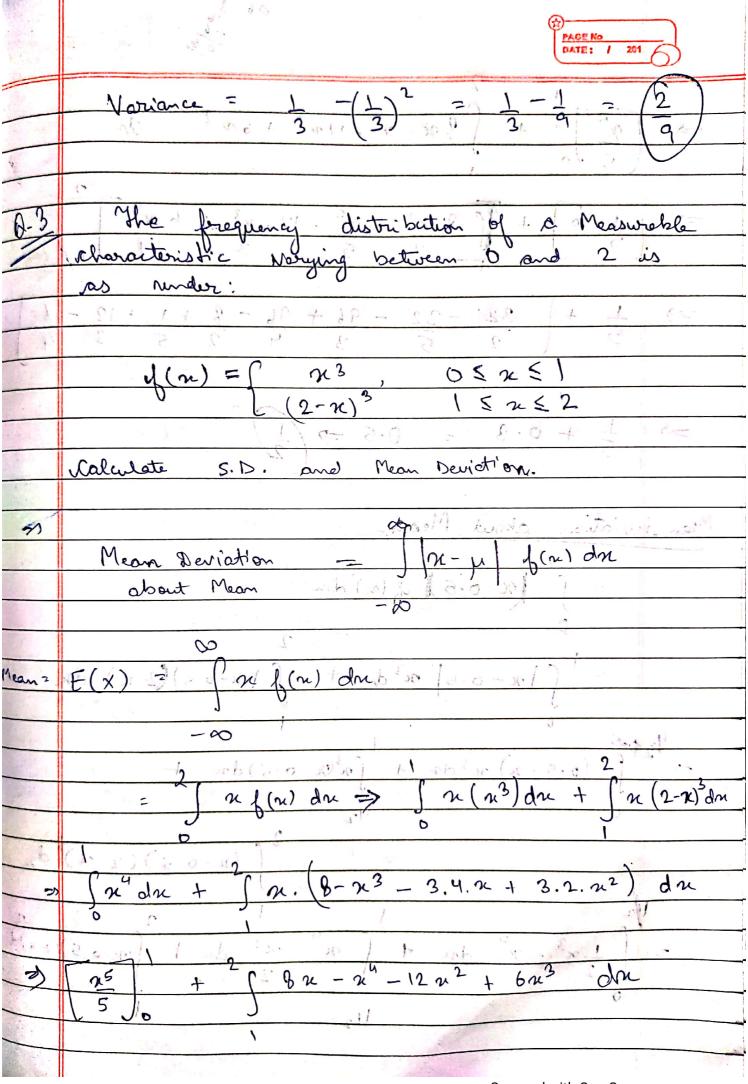
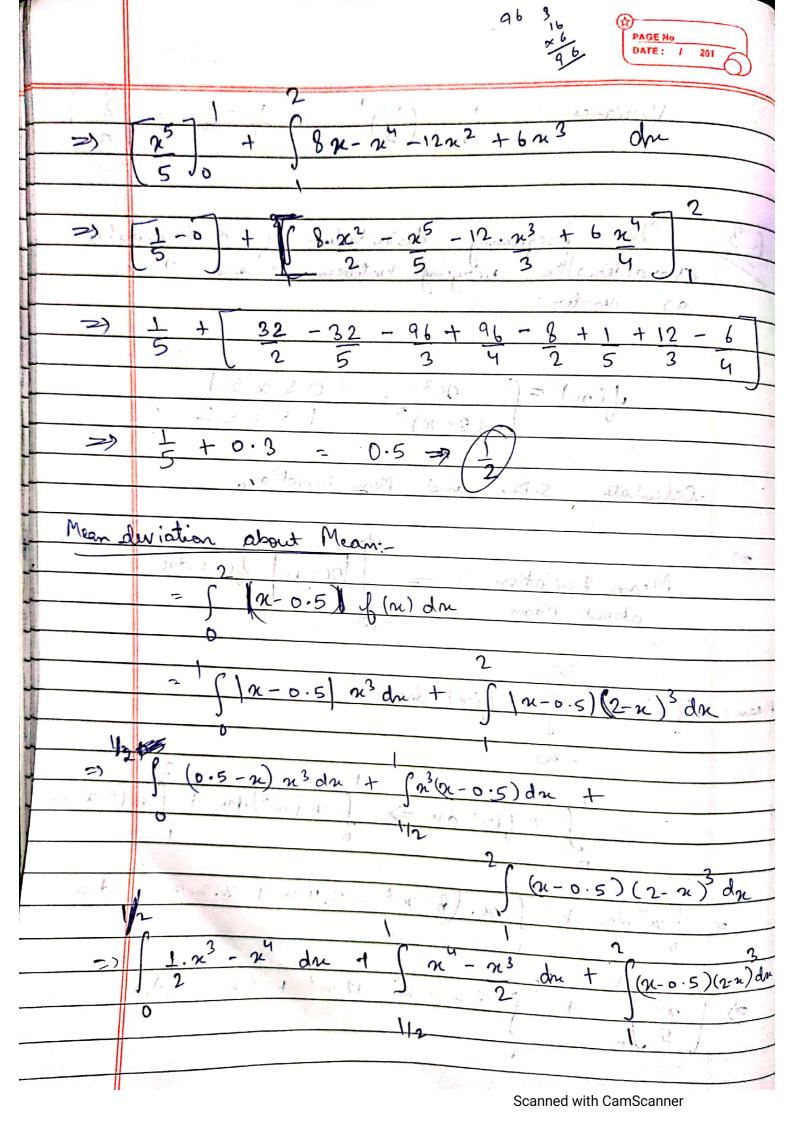


_	
6	4 (n) = part / (n < 1)
1	2
1	0, elsewhere
	So 1 200 1 2
	Represents the density function of a Random
	Variable (X). Find E(X) and Var (X).
	2 6 2 2 1 1
2)	Mean = $E(x) = \int n \cdot \int (n) dn$
	(I) <= / /- / + 1 / 1 = 1
	Variance = $V(x) = E(x^2) - (E(x))^2$
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
2	
	2
	$-\infty$
	who are the second
	= 1-/ \ n2 And
	2/1 / /
	- A
	= 1 [(12+1) - (-1)2+(-1))
	2
	$= \frac{1}{2} \left(\frac{1-1}{2} \right)$
	12 / 1 / 1
	= 1.16/2 2/ /2
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	$(\cdot \cdot$
20	0.0015625 +0.0765625 + 0.175
7)	0.253125
7	1 - 5 - 6
Aust	$\sqrt{(n)} = \frac{3n^2}{2n}$ $0 \le n \le 1$
	O, otherwise
	5 P = (w) } S & &
	find E(x)
140	$E(x) = \lim_{n \to \infty} \int_{\mathbb{R}^n} n \cdot \int_$
1 ,00	
	7
	$\int 3n^3 = 3 \times n = 3 \int x$
and the second	1 = 4 20%
	$E(x)^2 = 3$
	30
	-141 De la dela de
	$E(x^{4})^{2}$ $\int x^{2} f(n) dx$
	-w
	1 Chas V pet ster retail
	$\int x^2 (3n^2) dn = 3 \times x^4 = 3n^5$
	5
	= 3 (1-0)
	5
	$F(\pi^2) = \frac{3}{2}$
	5
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