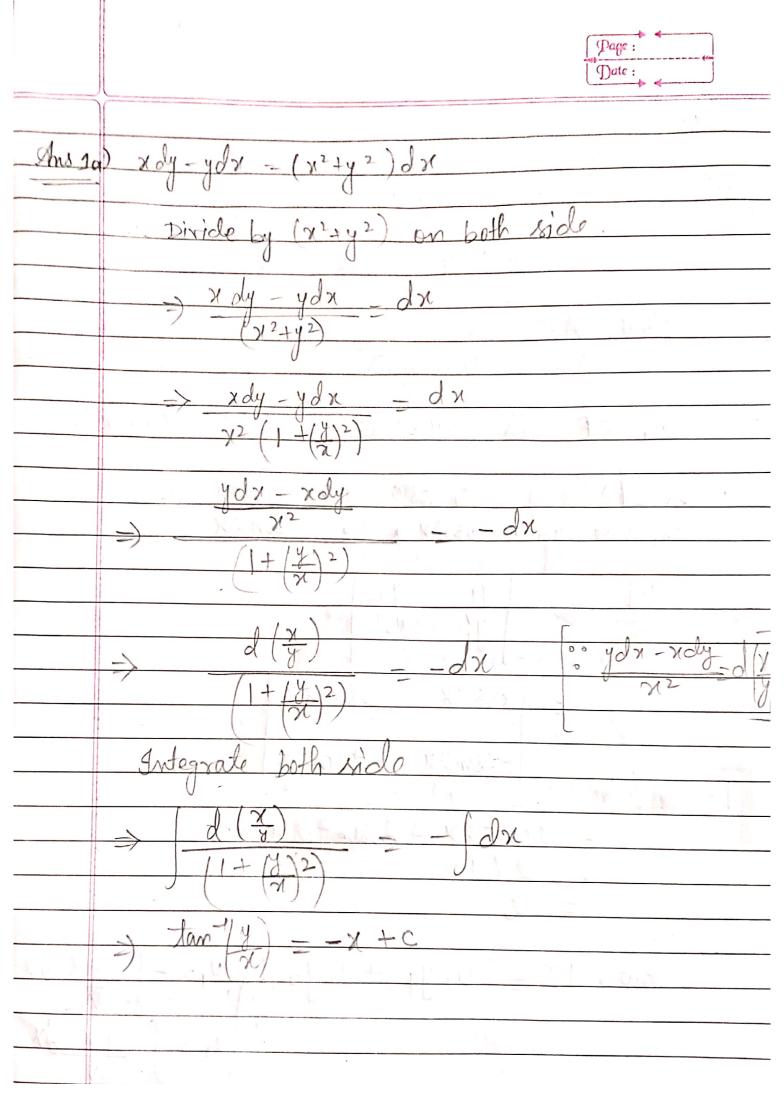
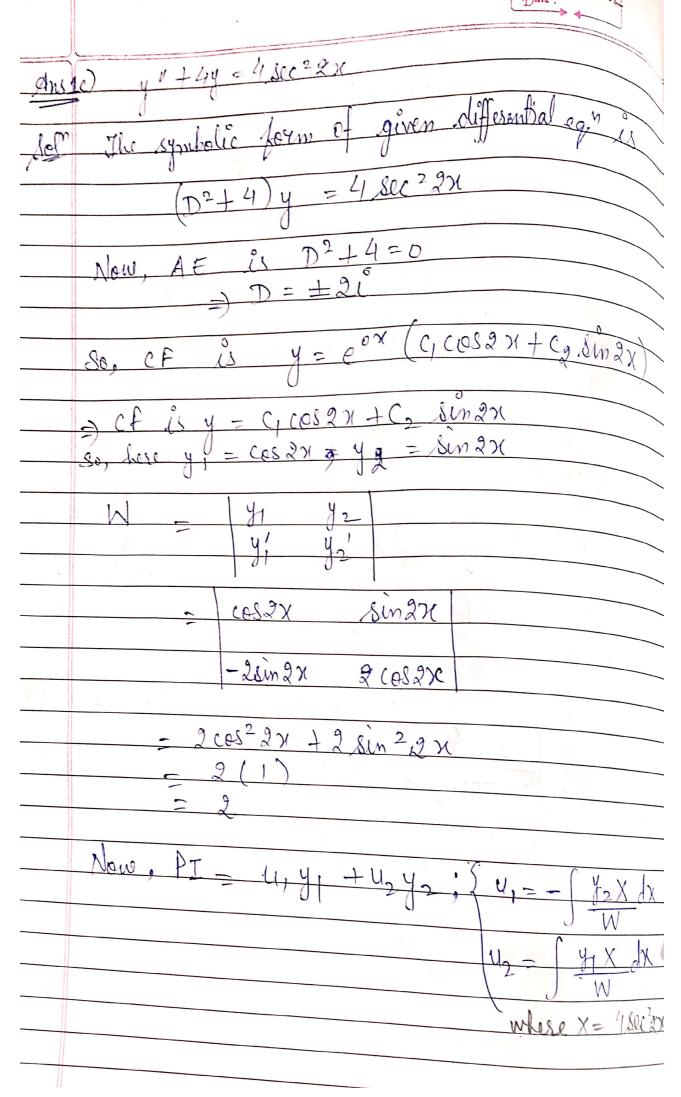
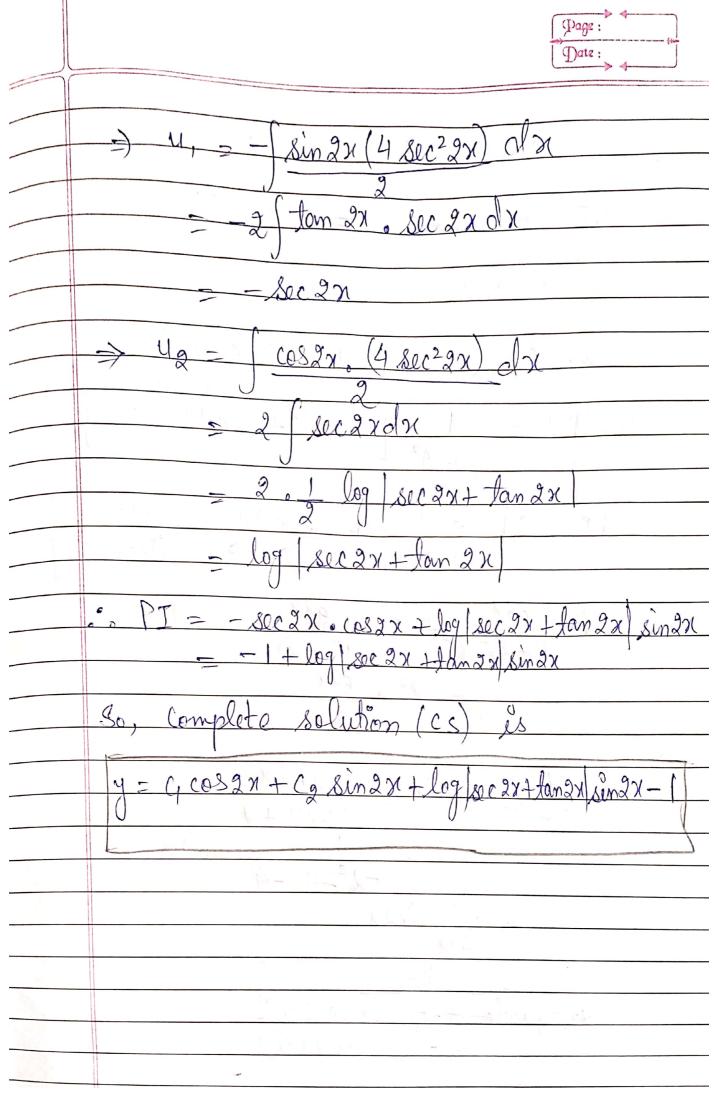
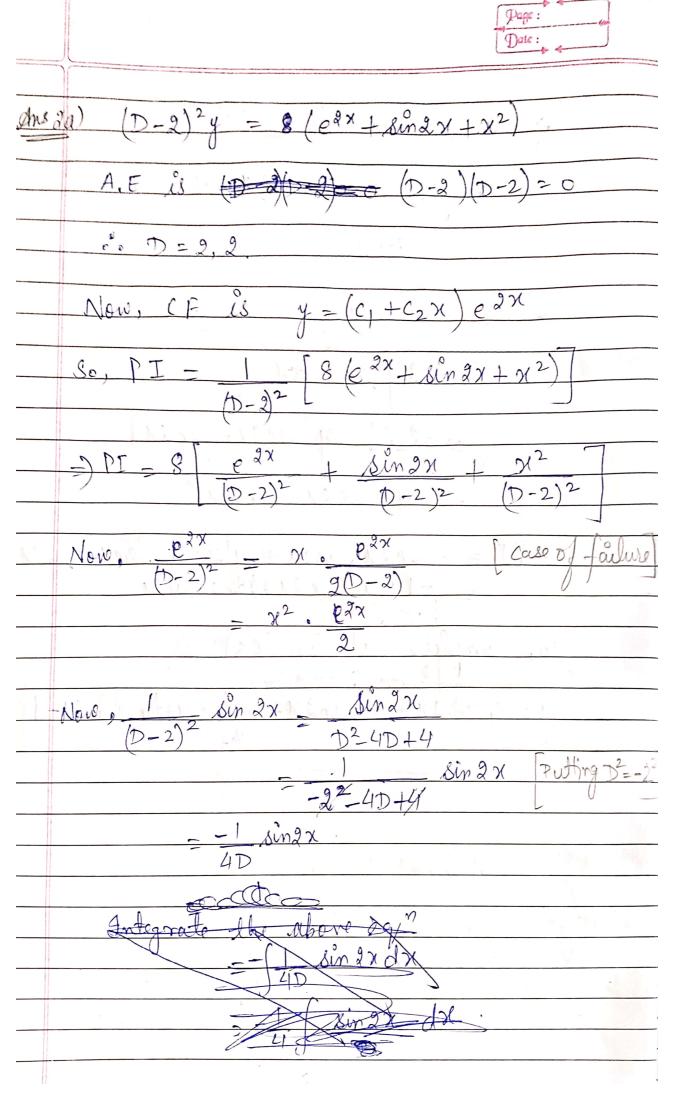
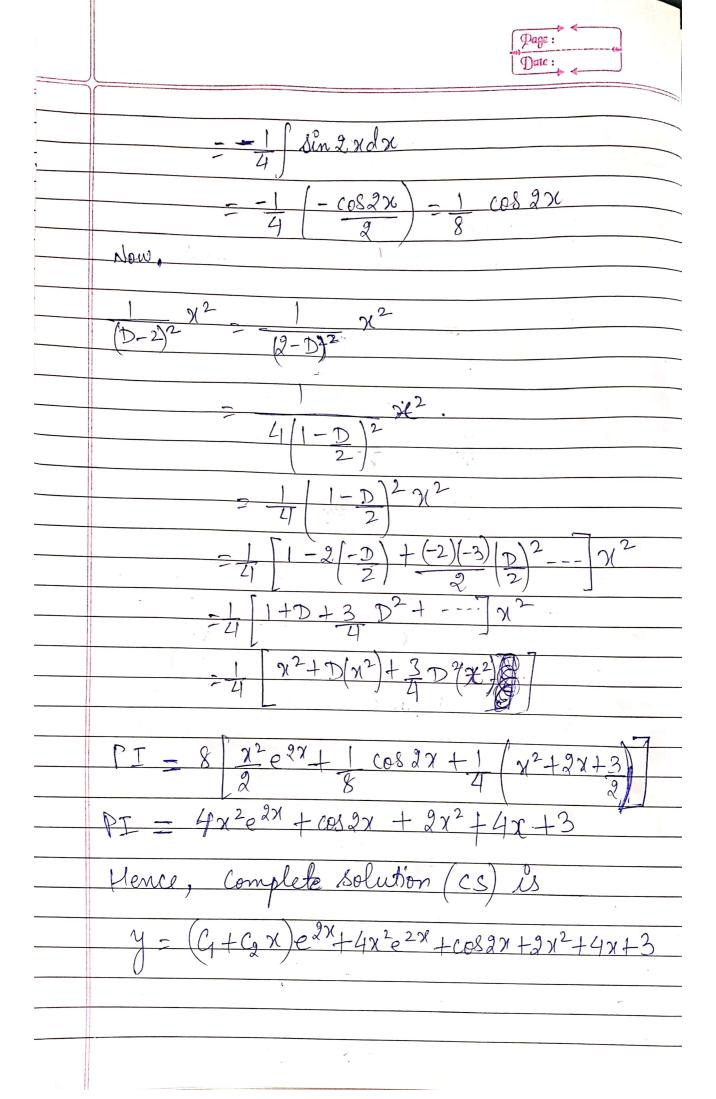
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	Session: 2019-2023	
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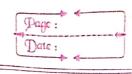












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Ans 3a) dy 1 1 - et	
$\frac{dhy 3a}{dx} + \frac{1}{x} = \frac{e^{x}}{x^{2}}$	
	A
This nie pro Mil Can	
Jhis egn is Bernoullis Egn So divide by ex on both side	1
So divide by en on both side),
, -41 -4 1	
$\Rightarrow \frac{e^{-y}dy}{dx} + \frac{e^{-y}}{x} = \frac{1}{x^2}$	
Now, Put et = >	
$\frac{1}{\sqrt{100}}$, $\frac{1}{\sqrt{100}}$),
$\frac{1}{2} - \frac{e^{-\frac{1}{2}}}{e^{-\frac{1}{2}}} \frac{dz}{dx}$	
	T
$= \frac{e^{-\gamma} dy}{dx} = \frac{-dz}{dx}$	
Put this value in egn	
Put this value in eg	Il in
d= 1 = 1 011	-
$\Rightarrow \frac{-dz}{dx} + \frac{z}{x} = \frac{1}{x^2}$	
multiply by (-1) on both side	
Machipul By (*) on born 25702	7.5
7	7
$\frac{1}{2}$ $\frac{\partial z}{\partial x} - \frac{z}{x} = -\frac{1}{x^2}$	
Now, it is in the form of clz +	P-= R)
O O (dx	
0 PZ-1 Q2-1	
$\frac{1}{\chi}$ $\frac{\chi^2}{\chi^2}$	
$If = e^{\int -\frac{1}{x}} e^{-\log x}$	
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