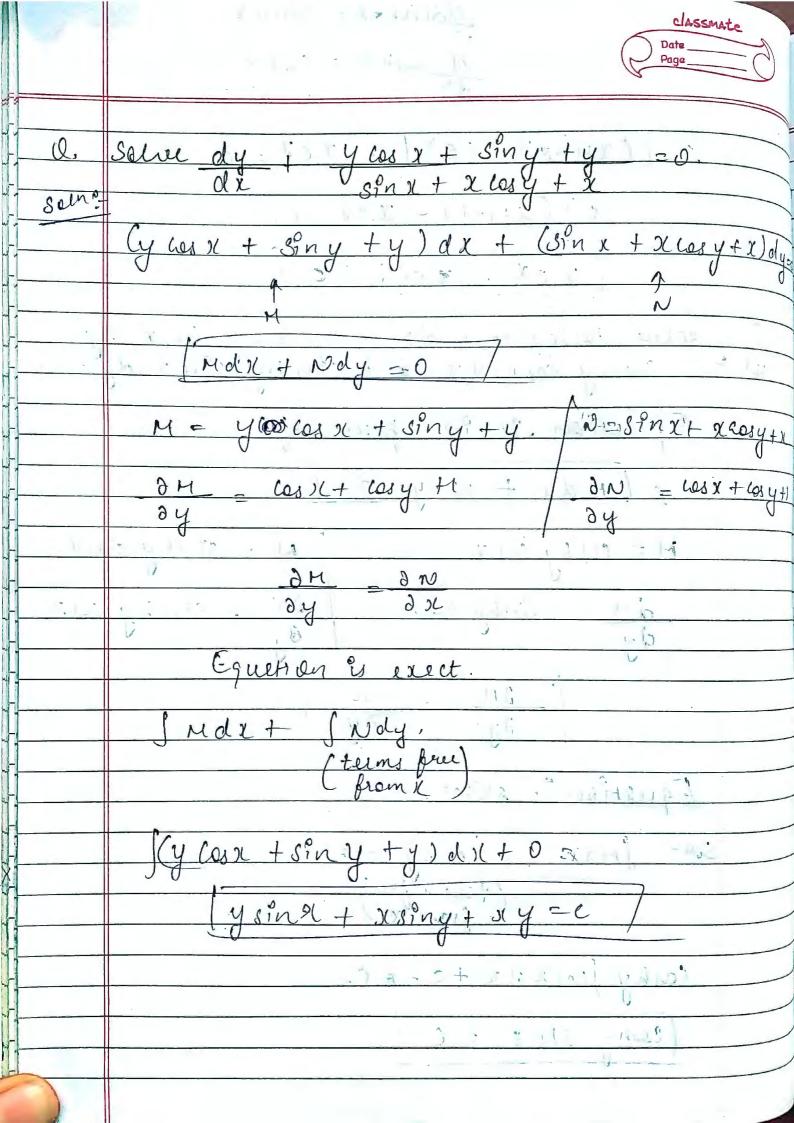
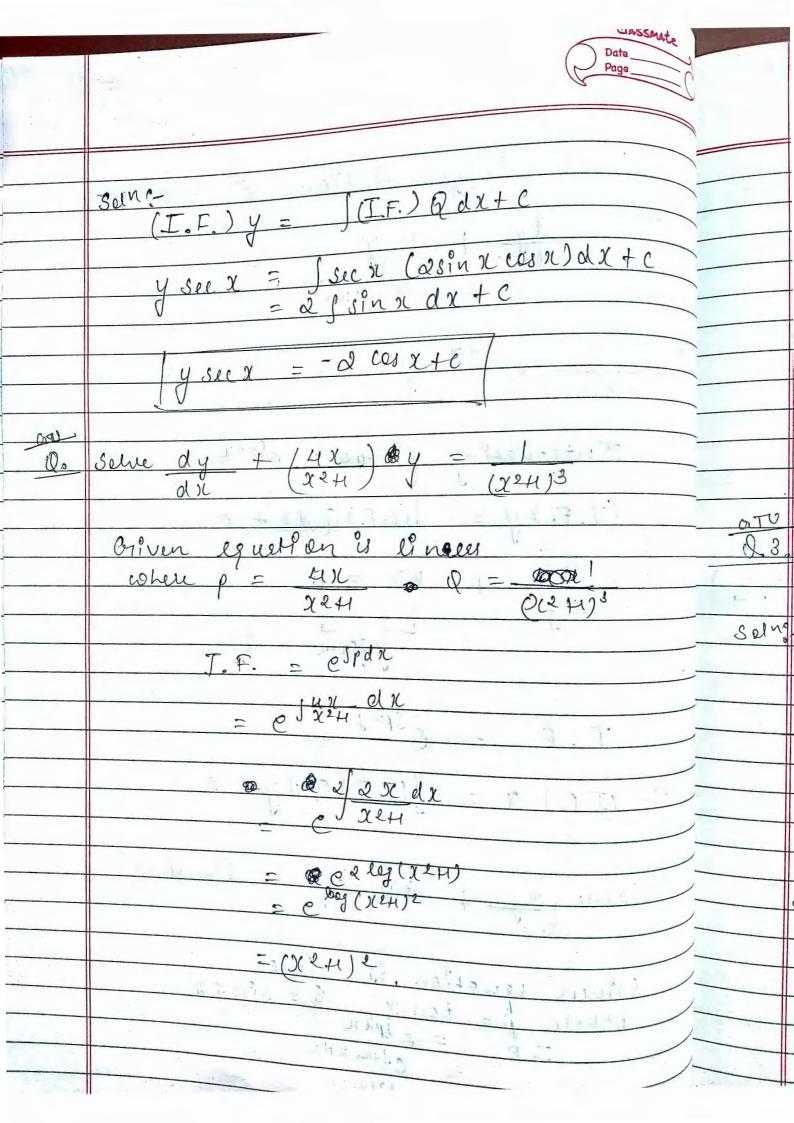


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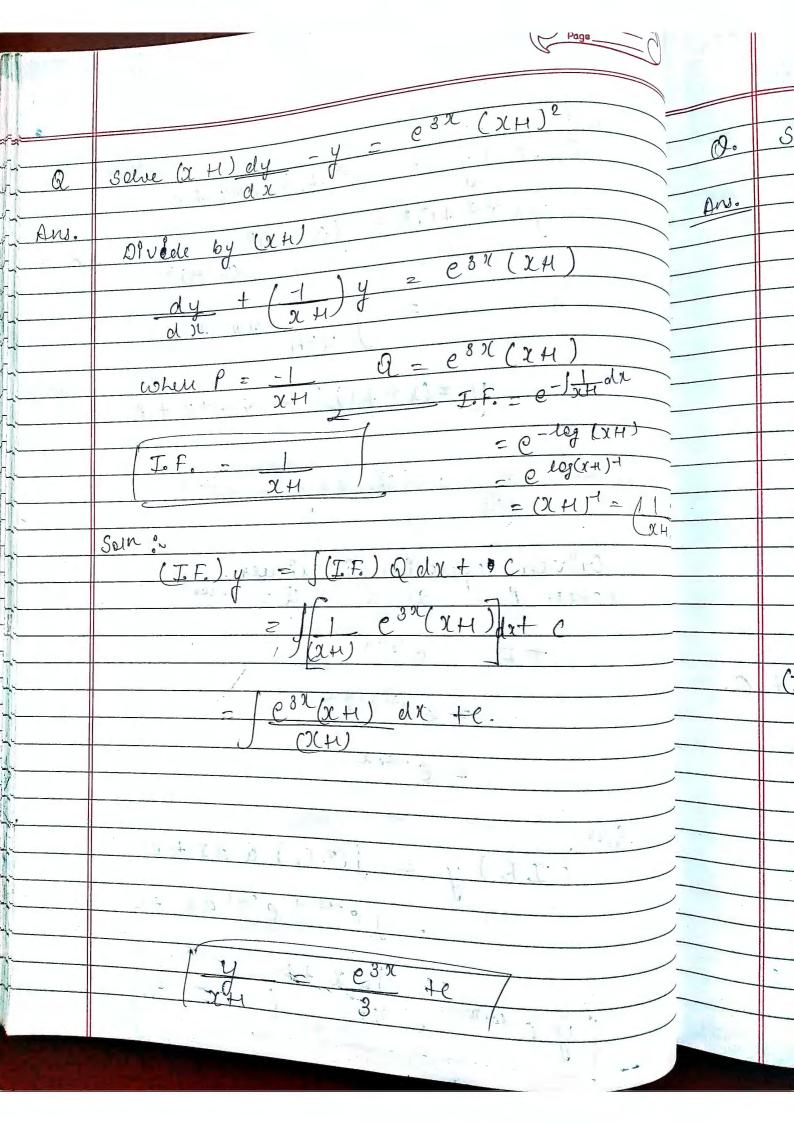
old X forn $\frac{dy}{elil} + (eil) + y'' = sin y.$ Integreting factor - espail $(J.F.)y = \int (J.F.)Q dx + C.$ T.F. - espay soln= (I.F.) X = J(I.F.) Qdy + C. O.l. Solve dy + (7and) y = sin 2)1 Criven equation is linear

where p = tan x, Q = sin Q xTo $P = e \int p dx$ = e $\int p dx$ = p $\int p dx$ The soc x



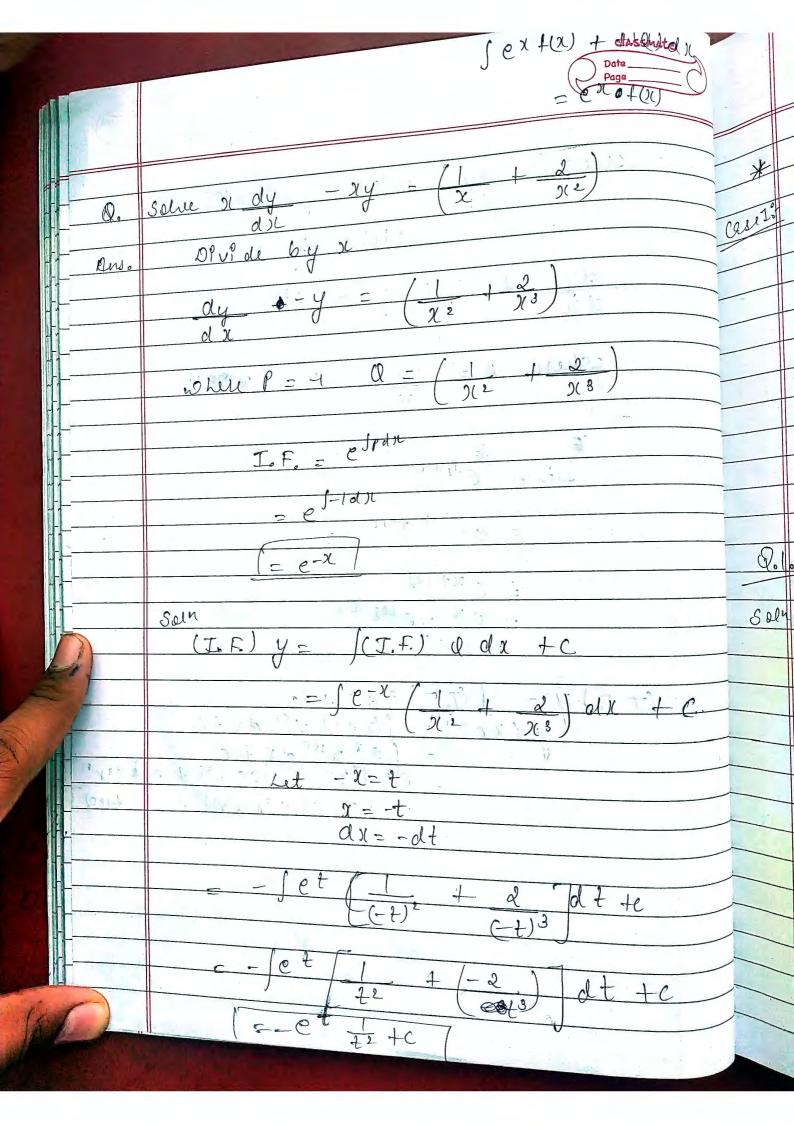
Soln (I.F.) y = f(I.F.) Qdx + c y(x2+1)2 = f(x2+1)2 1 dx + c = 1 du + d y = (212+1)2 = fan1x+c 23. Solve dy + (sinx) y - e cosx solns Criven equation is linear.

where $f = Sin x - Q = e^{\cos x}$ $J.F. = e^{Spdx}$ = e sinadal = e -105 X Sola (I.F.) y = J(I.F.) Q dx+C Je-10891 e cost du te Tyeran = site

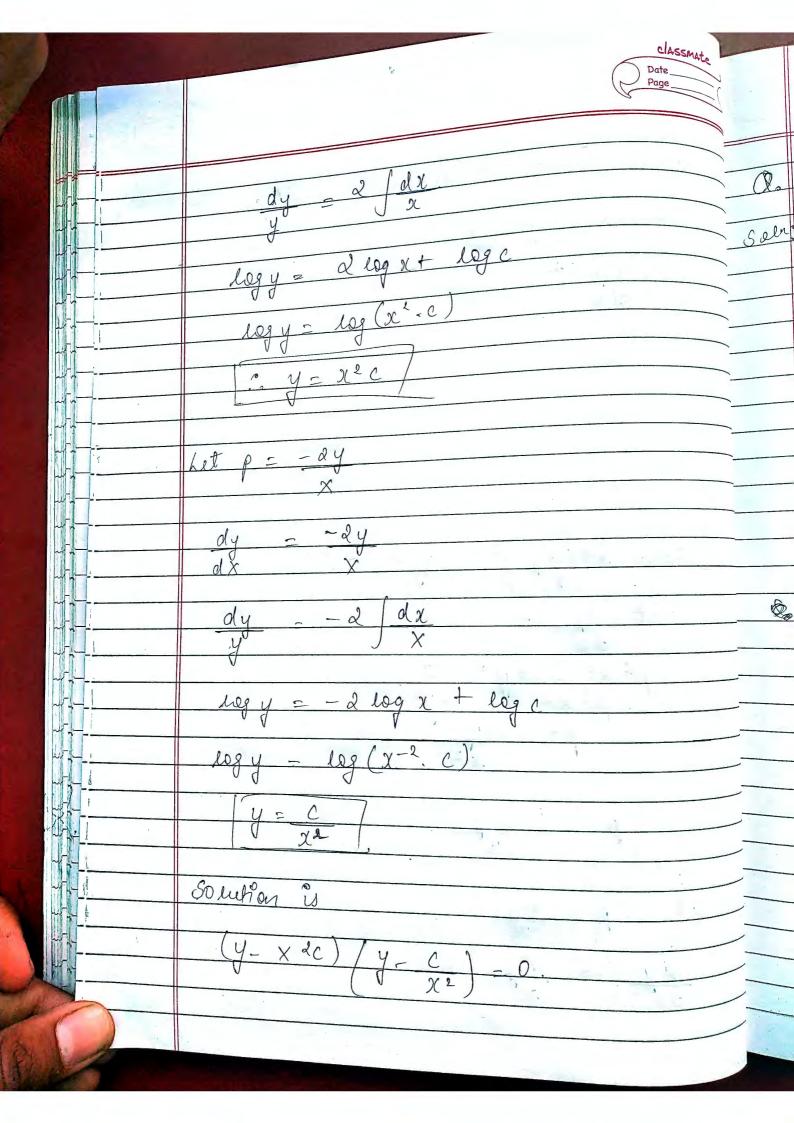


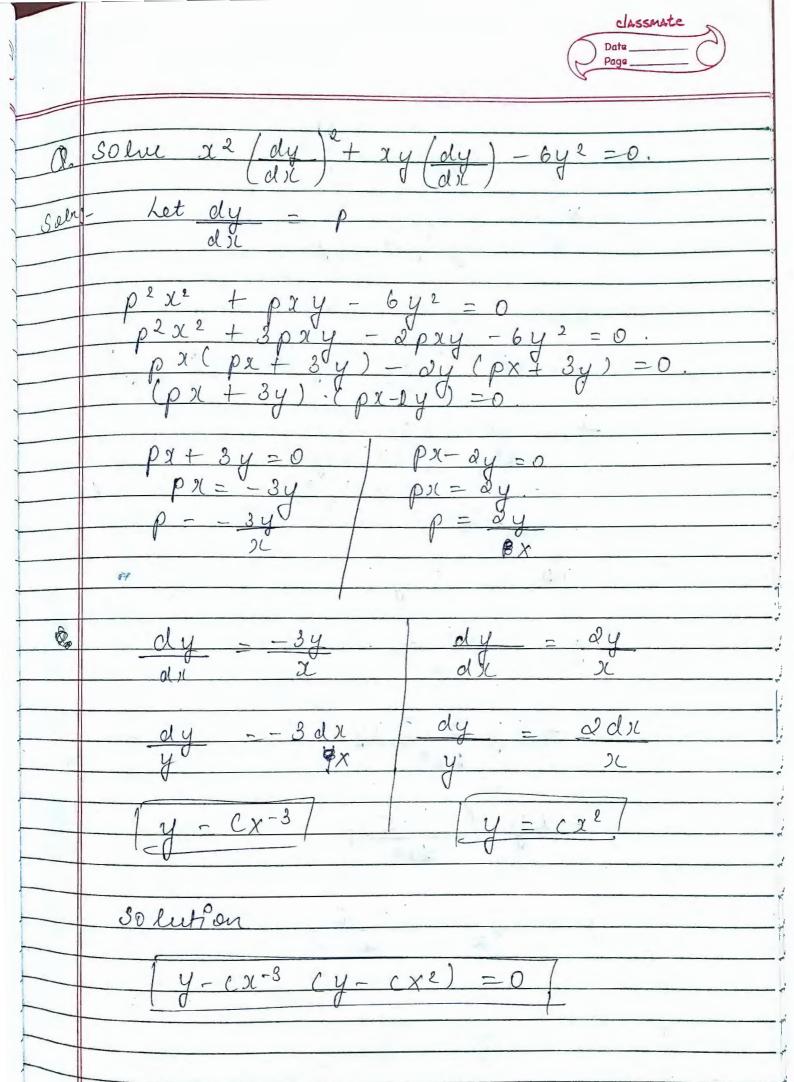
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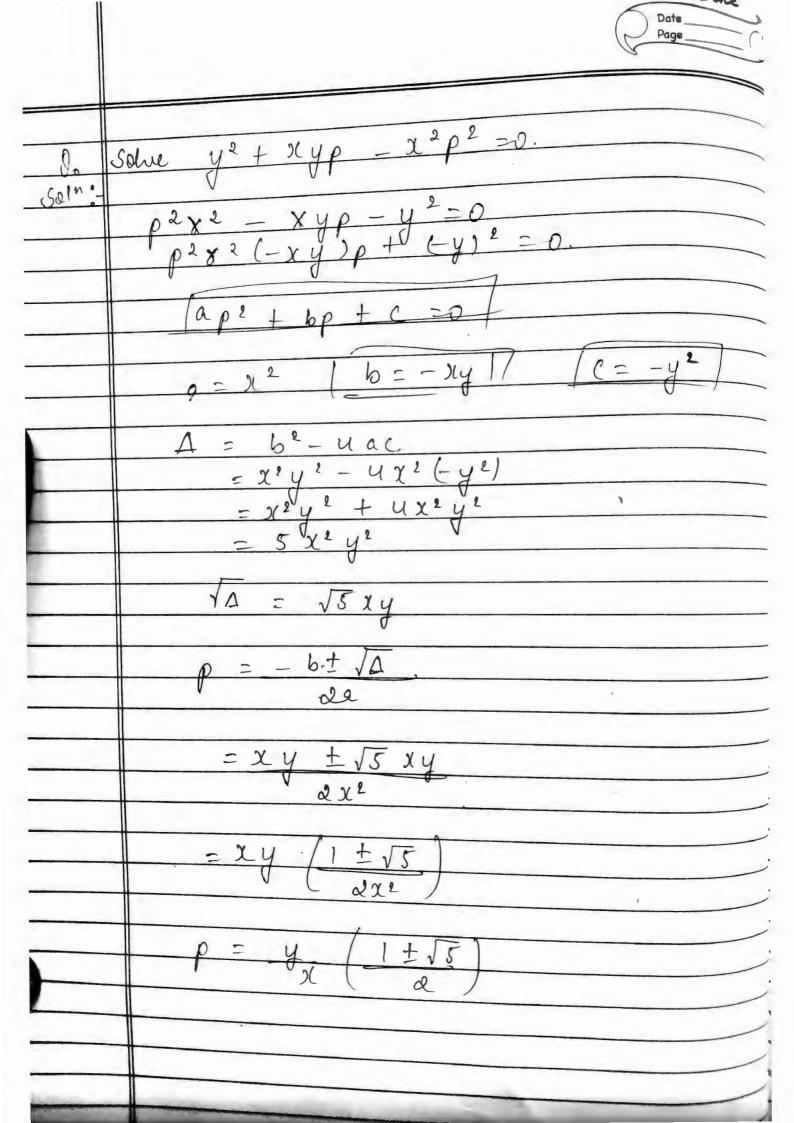
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Classmate

Date_____
Page____ Now = y (1+ \s) P = 4 dy = y (+15) dy dx. dy - (1-15) - dx $= \left(\frac{1+\sqrt{5}}{2} \right) \frac{dn}{n}$ Y = CX (4+15) y = (x (1-15) Solution $(y - cx^{(1+\sqrt{5})}) (y - cx^{(1-\sqrt{5})}) = 0$ Type do Solve y + px = p2 x4. dy = (4×3p² + &p xu dp) (pf+ xdp)

