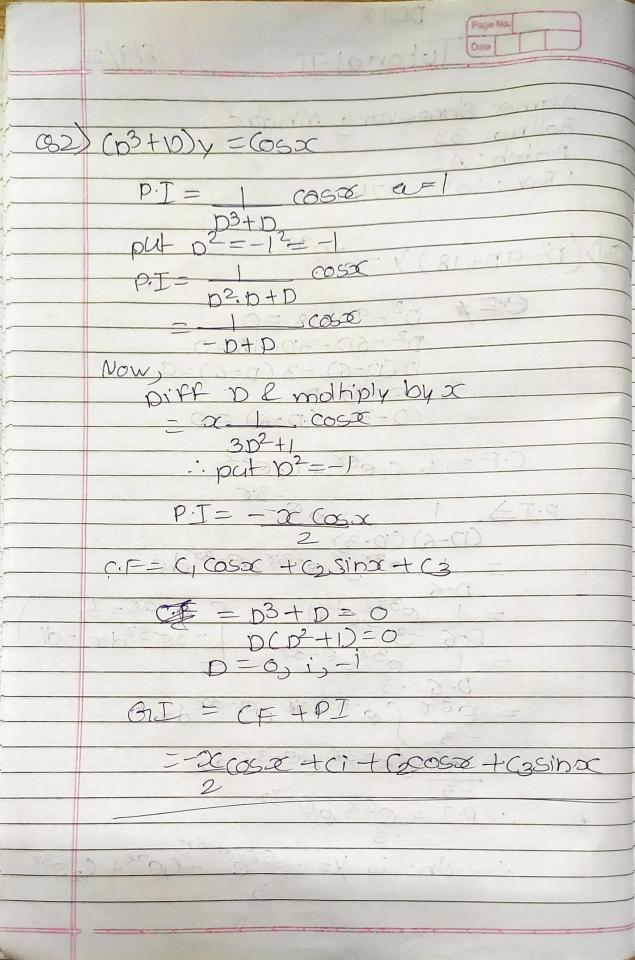
DETT Face No. 100 8/9/22 Tutorial-II Name: Shreering Mhatre Rollno: 33 Batch: A2 PRN: 1032211745 (3) (D-9D+18) y=e3x $p^2 - 9D + 18 = 0$ D2-60-3D+18=0 D(D-6)-3(D-6)=0 2 (1019-3) D. S. C. HUG (D-3) (D-6)=0C.F-15 C166x + C203x. -35 (D-6) (D-3) | e3x (e-3x ee-3x de $\frac{-3}{-3} = \frac{-3}{6} \times 5e^{-3x} \cdot e^{-3x} \cdot dx$ -3 ·. p.I = e65(ee-3x) ... soln: is y= -6xe = 3x + 60 + 62 = 3x



(84) (D3+8)y= 04+20+1 8=0 $(a+b)(a^2-ab+b^2)$ $= 5D^3 + 8 = 0$ = (a+b)(a^2 -ab+b) $D^3 = -8 = 5D = +1 + i + 3 = (D+2)(D^2-2D+(e))$ a=1,13=N3 cp=0-2 (c,602N3x+(26inN3x)+(20-27 $PI = 1 \qquad (x^{4} + 2x + 1)$ $= 8(1 + 2x)^{3} - (x^{4} + 2x + 1) \qquad = 12x^{2}$ $= 8(1 - 2x) + (x^{4} + 2x + 1) \qquad = 12x^{2}$ $= 8(1 - 2x) + (x^{4} + 2x + 1) \qquad p(fx) = 24x$ in The fext can be diff 4 time hence. P.I= 2-24x (24+20-1) = 24x5+ x4-48x2+26x-1 G16= (f+PI) = e-2 (c, cos N3x + GsinN3x)+(3e-27 - 24x5 + 24x5 + 24-48x2+26x+7 62 (10g(scd2)+(3 12 6 1 3 42) -2 3 4 105 (2 + 2)

B) (D2+2D+1) y = e-x AF = -0 +20-1 : ranks are: -2+ N4-4 PITE $= 0^{2} \qquad x+2$ $= 0^{2} \qquad 1 \qquad 1$ $= 0^{2} \qquad 1 \qquad 1$ $= 0^{2} \qquad 1 \qquad 1 \qquad 1$ $= 0^{2} \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1$ $= 0^{2} \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1$ $= 0^{2} \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1$ $= 0^{2} \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1$ $= 0^{2} \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1$ $= 0^{2} \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1$ $= 0^{2} \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1$ $= 0^{2} \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1$ $= 0^{2} \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1$ $= 0^{2} \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1$ $= 0^{2} \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1$ $= 0^{2} \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1$ $= 0^{2} \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1 \qquad 1$ PJ= 0-2[x+2)-2x+10g(x+2)]

Fope No.

6) (p2+3p12) y = x sinex $- > AE > D^{2} + 2D + D + 2 = 0$ - > D(D + 2) + 1(D + 2) = 0(D+1) (D+2) = 0 CF= C10-2+ (20-2x $p \cdot T \Rightarrow y = 1$ $x \sin 2x$ $= \left[x - 20 + 3 \right] \cdot 1$ Sings b2+3D+2 102+3D+2 3D-2 3D-2 multiply Nobor by conjugate. $= \left[2 - 20 + 3 \right] \frac{30 + 2}{30 - 2} \frac{30 + 2}{90^2 - 4} \frac{90^2 - 4}{30 - 2}$ $= \left[\frac{20+3}{30-2} \right] \frac{30+2}{-40}$ = + 3D+2 x + (2D+3)(3D+2) $\frac{40}{-30+2}$ $\frac{46(30-2)}{-130+6}$ 40 40(310-2) =-3b+22+-24+13b+640 1200-80 - - 3D+2 x + 13D-18 40 12010-80