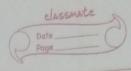


Q2 (0°-20-50+6) y= 22+8 Sd: D-202-50+6=0 [Auxillary eq -> RHS discovers of For CF - CFEGET + GET + We can reperate e3+8 as following: Denominator is O, we will differentiate f(D) with After differentiating decommentor, are multiply numerator by 'x'



For P2:- P2 = 80x $(a=0) \qquad (0)^{2}-2(0)^{2}-5(0)+6$ = 8 2 (1)z> P2= 4 2 Janeral sol given by - y = C.F.tP.I=> $y = C_1e^{2x} + c_2e^{3x} + c_3e^{x} + xe^{x} + xe$ $\int_{3}^{3} \frac{d^{3}y - 4 dy}{dx} = 2 \cosh^{2} 2x$ > cosh (2) -> hyperbolic function = ex+ ex Sel: Auxillary eq :- D3-4D = 0 :. D = 2,0,-2 becomes: - 03-40 = 2 (2x+exx 2) p3-4p = e4x + e4x + 1

For P.I = 1. $e^{4x} + e^{-4x} + 1$ f(D) 2 2 $= e^{4x} + e^{-4x} + e^{0x}$ 2f(D) 2f(D) f(D)(a=4) (a=4) (a=0)

y=C. F+P.I = qex+gen+gen+gen+4 4 48