FRENCH ERERE CIVIL ENGINEERING IBLENGOSL059 ENG 381 dzy + 4 dy + sy = 6 sin D do 20 CF m2 + 4m + 5 = 0  $-6 \pm 16^2 - 4ac = M$ 2a  $\pm \sqrt{4^2 - 4ci} cs = m$ 201) 4 = 16-20 2 t J 1-4 2 -2 ± 12 2 m = -2 + = e-20 (Acost +BSUD) p=14 = CSIND + D COSD COOST - DSmo dy 07 = - CSMD - DOSD dry dx2 - e CSIND - DWS + +4 CCCOSD - DSIND) +5 CCSINDHDWSD) = 6 sin 7 -CSMD - DCOSD + 4CCOSD - 40 SMD + 5CSMD + 5D c OSD= bsind comparing we ficient -c - 40 + 5c = 6 - (1)-D + 4C + 5D = 0-(1) 4C-4D=6 40+40=0 0-80=0 0 = -6 = -3/4

-4±116-20 2 -4+ 5-4 2 33 -2+j  $= \frac{\omega}{\omega} (\frac{1-x}{2})^2$ EIdy 2 0x2 Solution CF EIm2-0 m2 0 1,1,1 1.2 m= 10 m = 0 $y = e^{02} CA + Bx)$ y =1+Bx PIT 1. 14 . 14 1111 1 1 ..... 14

$$\frac{y = Gx^{2} + tbz^{3} + zx^{4}}{y = 2Gx + 3tbx^{2} + tzx^{3}}$$

$$\frac{d^{2}y}{\partial x} = 2Gx + 3tbx^{2} + tzx^{3}$$

$$\frac{d^{2}y}{\partial x^{2}} = 2G + 6ttx + pzx^{2}$$

4 + 116 - 20 4 ± 5-4 2 -2+i  $= \frac{\omega (L-x)^2}{2}$ EID 2 0x2 Solution CF 1 10 10 EIm<sup>2</sup> -0 m2-0 m= 10 Crap - Com m = 0  $y = e^{02} CA + Bx$ =1+BC P.J 1114 1128 113  $y = Gx^2 + tlx^3 + zx^4$  $\frac{dy}{dx} = 26x + 3t dx^2 + 4z x^3$ da = 2G + 6#x + P. 2x2 dx2  $C_{2G} + 6Hx + hz_{2}^{2}) = 0 C_{L-x}^{2}$ 2aEI+6UXEI+1222EI= W C12-210c+22) Scanned by CamScanner

24E1  $6L^2 x^2 - 4L x^3 + x^4$ 4 = 10 24EI Gis C6232-41x3+x4 = 1 + Ba+ W 24E7 dy -0 x = 0at =0 4 4100)3+0 (62°CD)2 400 0=++ 24E] 0=4 120  $C_{12} v^{2} x - 12 L x^{2} + 4 x^{3}$ 24ET dr (200)-12LC03+400) DF B+10

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 $61^{2}3c^{2} - 41x^{3} + x^{4}$ = U C JYEJ y = w 22Cbi2 42c+22 24EI  $\lambda = L$  $y = 901^2$  (612-412+12) 2467  $y = 101^2$  (31) 2457 y = 300 L4 24EI y = 1014 8E]

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