NAME - Muhammad Hamen Navas NROHEMENT = 03-134221-05'S' ASSIGNMENT: 01. solution. dy + (1-n)4 plx) = (1-x) Q(x). substitule Value, dy + 84 = -8 The + way a confirmed to

The re du + 844 = -8. 4= y'-n 4= y'-n 4= y'-8) Te especial = est dx F= | 8 dx = 8 | dr = 8 | nx = 1 nx 8 [-e (nx8 =>7] = x8) Multipy on bls. 78 dy + 84 18 = -82 x. xx dy +8422 = -8x8. integrate on bls. 1 dx + 84x dx = [-8 x dx 28 71 = -8 719+C · 4 = -8 x + (11-8. 4: 4-8.

y-8= -8 1 + (28 y. (-8x+(x8)1/8) General Solution-1 7 = (-8) (-1/8) Q2 + x5y = x5y +.  $P(x) = \lambda^{5} \cdot Q_{1} = \lambda^{1} \cdot n = 7$ U= y 1-7 = y 6 4=4(=1) di = - 1 y = ) dy - 1 4 6) dy + x 5 4 (-1/6) = x 4 (-1/6). multiply = - 6 (7)(76)

14 - 62 14 = - 621 dy (u-1) (x5' seperating variable. 1 du= [621/d)(. In (u-1) = x1+C u= e (x 6+c)+1

Substitute back , j= 4 (-1/6) y= (x(+c)+1) (1/6).

e: / /20 C/2 Seperable differential. de do du = (x+6) (y-7). 27 = (x2+6) (J-7). 27 = (x+6)dx - dy = (202+6)/11. = (y-+) = e x3 +61+(1 2 dy yex 301= dx = J.e". y dy = e"dx 1 27 : [ex d) [In[]] = ex+(1) An 19-exc 111 y'= x7-3x 177-12
Sul=y'-7j= xj-3x-12. Intestating factor = e-yn. multiply on e-4x.y'- 4e-4xy = 1(e-1x 3e-4x 12e-4x d (e-4xy) = xe-4x - 3e-4x - 12e-4x [d(e-4113y)= [(ke-411-12e-42)]. e 4) = - 1 x 2-4x - 3 e - 4x + 3 e - 7x + 4 1 J= -1 11 - 3 +3e" + (,e"x)