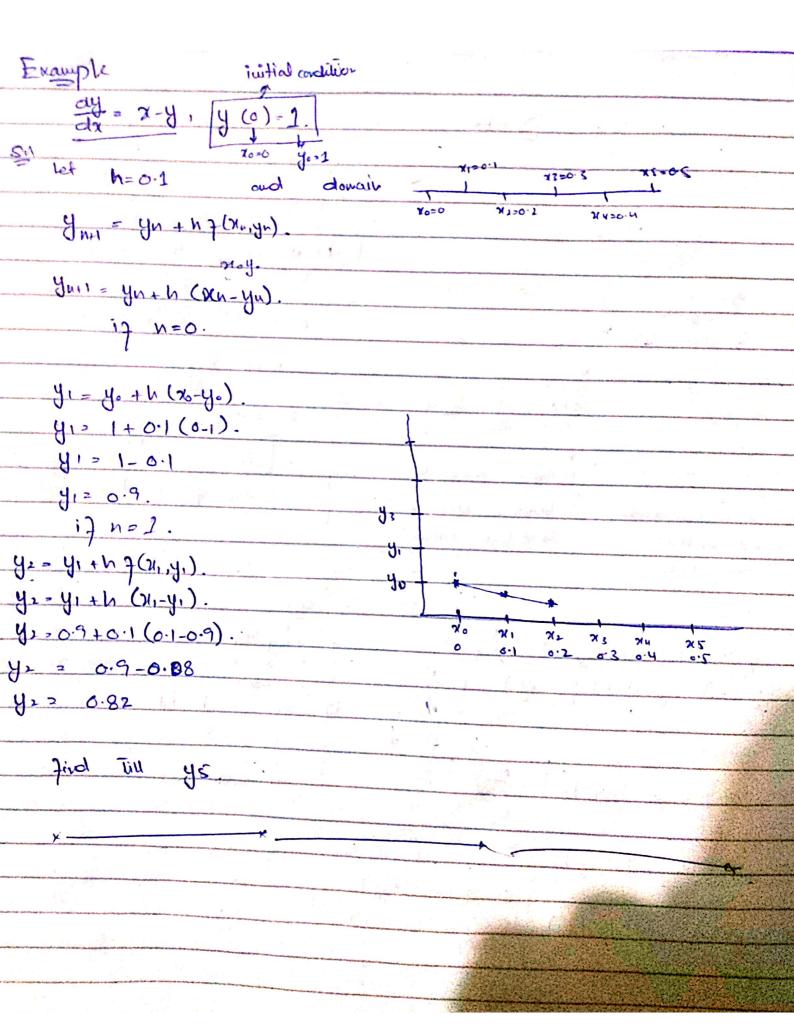
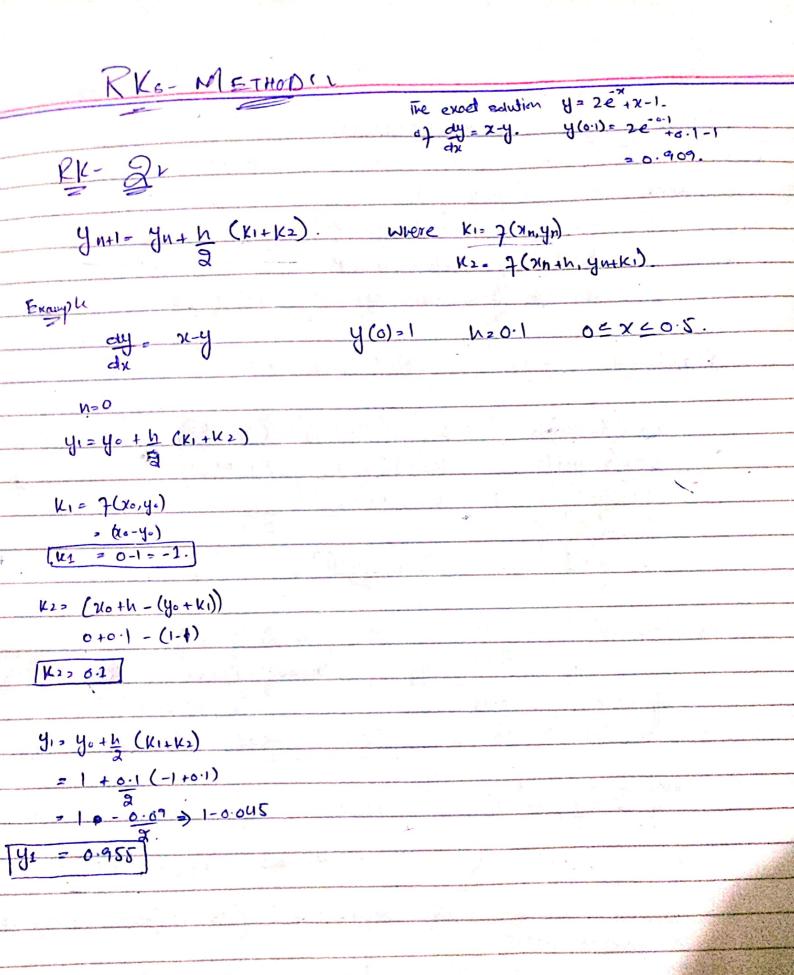


Scanned with CamScanner





KK-91ynul yn+ 1 (KI+ 2 (K2+163)+164). where Kiz with of (xu, yu) K22 W7 (Xu+11/2, yu+ Ki) K3 = K J (2(1+1/2, yn+K2/2) Kush of (xn+h, yn+k) y6/21, h2 0.1. 7 (2,4) . - y' = x-y. K2=h((x0+h/2)-(y0+K1)). K2=(14-yn)h K2 = h((0 + 0.1) - (1 - 6.1/2)) 122 (x.-40) h 142=(0-1)h K2 2 6.1 (0.1 - 1) 12-(-1)(0·1) K2 -0.99 K3 = h (20 + h/2) - (yn + K2) Ky= (x0+h)-(y0+k3) h · ((0+0·1) - (1-0.725)) 0·1 2 ((0·1) - 6·275) (6·1 [K4 2 -0·08095] = h (0 + 6.1) - (1 - 6.45) 201 01 - (1.55) Now 20.3 (0.1 - 1.22) y1= y0+ = (++2 (-0.45-0.725)-0.175) y1= y0+ 1 (-0.1+2(-0.09-0.0905)-0.080 K 3 2 -0-9-5-0.0905 y1:0.90968

$$y_{2} = y_{1} + \frac{1}{6} \left( K_{1} + 2 \left( K_{2} + K_{3} \right) + K_{4} \right). \qquad h=0.1.$$

$$y_{1} = 0.90968$$

$$K_{1} = h \left( X_{1} - y_{1} \right) \qquad \chi_{1} = 0.2.$$

$$K_{1} = \left( 0.0 \left( 0.0 + 0.0 - 0.0968 \right) \right)$$

$$K_{2} = \left( 0.0 \right) \left( \left( 0.0 + 0.0 \right) - \left( 0.90968 - 0.07192 \right) \right)$$

$$K_{3} = \left( 0.0 \right) \left( \left( 0.0 + 0.0 \right) - \left( 0.90968 - 0.07192 \right) \right)$$

$$K_{4} = \left( 0.0 \right) \left( \left( 0.0 + 0.0 \right) - \left( 0.90968 - 0.07192 \right) \right)$$

$$K_{4} = \left( 0.0 \right) \left( \left( 0.0 + 0.0 \right) - \left( 0.90968 - 0.07192 \right) \right)$$

$$K_{4} = \left( 0.0 \right) \left( \left( 0.0 + 0.0 \right) - \left( 0.90968 - 0.07192 \right) \right)$$

$$K_{4} = \left( 0.0 \right) \left( \left( 0.0 + 0.0 \right) - \left( 0.90968 - 0.07192 - 0.07192 \right) - 0.06373 \right)$$

$$y_{2} = 0.83747$$

$$y_{3} = 0.83747$$

NUITES/EPS NEHODS/2- 4. 4. 4. 4. 4.
* Reguire some single steps method for tick up.
MILNE'S MEHODI-
Predictor (Milen's) => y== yn-3+4 n[2(1)-(1n-1)+ a(1n-2)]
Corrector yn+1= yn++ h [7n+1+4(7n)+(7n)+(7n-1)].
<del>M23</del>
Example
7(4)= x-y-, h=6.7 0=x=0.5
y=1, y=090968, y=>083747, y=>0-78164.
i} N=3
So predictor = yet = yo + 4 (61) [2(xz-yz) - (xz-yz) +2 (x1-y1)].
yp4= 1+04 [2(6-3-6-78164)-(0-2-0-83747)+2(0:1-0-90968)]
you o. 740644): predicted value of yu.
collect
Yeu = 82 + 1 [ (xu-yu) + 4 (xz-4z) + (xz-4z)].
yet= 0.83747 [ (0.4-6.740644) +4(03-6.78164)+ (0.2-0.83747)]
14064d) +4(03-0.1816A)+(0.5-0.520A)
ye'= 0.74064 -> Apploximate
yer= 0.74064 → Approximate value

