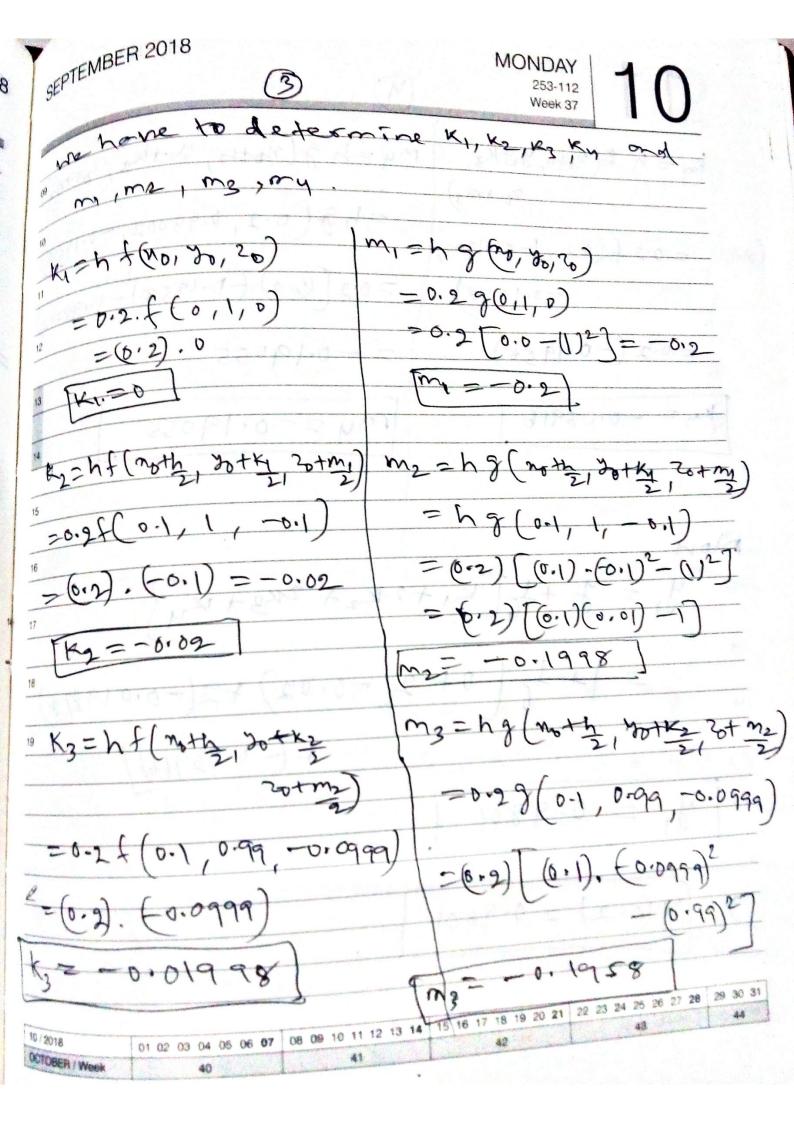
SEPTEMBER 2018 O Find the value of y6.2) and y'(0.2) where y'' = n.(y') 2 - y2 given that y=1, dy =0 at N=0 by using R-K-mothed. dry = n. (dry)2 - y2, y(0)=1, dry In (dy) = n. (dy)2-42, m(0)=1, dy putting dy = Z x22-y2, y(0)=1, 2(0)=0 dry = + (my, 2) = Z, y(0) = 1 ? = 3(my, 2) = x22-y2, 20) = 0 20 11 12 13 14 15 18 17 18 19 20 21 22 23 24 25 26 27 28 29 30

SEPTEMBER 2018 SATURDAY Week 36 Here 10 0.6 0-N N3 12 13 15 17 19

9 / 2018

01 02 03 04



11

TUESDAY 254-111 Week 37

9

boy = h f(noth, yotks, zo +m3)

0

= 0.2 f (0.2 , 1-0.01998,

-0.1958

12

=0.2 (-0.1958)

13

14 = -0.03916

15

my = h g (Moth, Jothy, 30th

= hg (0.2, 0.98002, -0.195

= 0.2 (6.2) (D.1958) - (0.980)

=-0.19055

my = -0,19055

Moly

17 y, = 30+4[K1+2K2+2K3+K4]

18

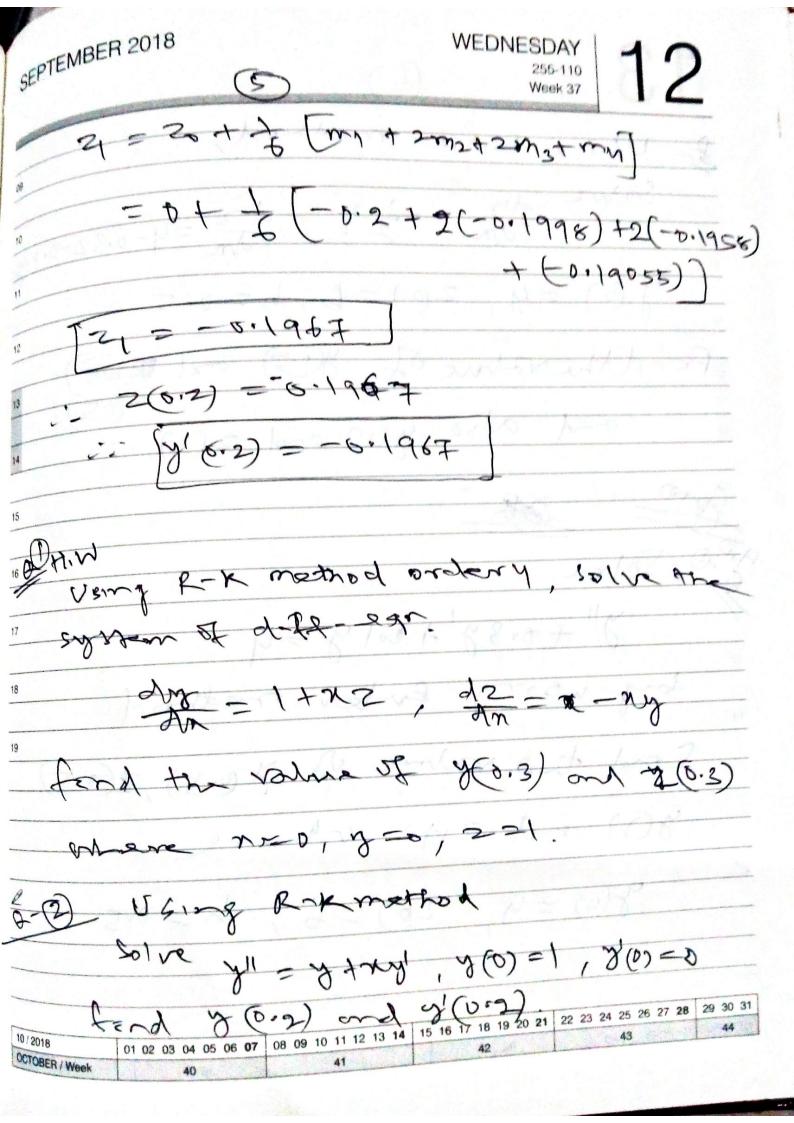
19

= 1+ 16 (0+ 2(-0.02) +2(-0.01988

+ (-0.83916)

71 = 0.9801

7 (6.2) = 0-9801



SEPTEMBER 2016 **JRSDAY** en/mer ==4-0.32-0.14 ,20)=6,h the value of 40.5) and also y(1) and 2 y"+0.39'+0019=4 fond the value of y (0.5), 2(0.5) 8(0) = 4, 26) = 6, h = 0.5.

10 20 21 22 23 24 25 26 27 28

SEPTEMBER SATURDAY i-6 /4(0.5)= 12 13 = 6 + (.5). 4-0.320 14 9-(0.3), 6-(6.1) 15 16 6+0.9 = 6.9 17 18

19 => [2(0.3)=6.9]

10 SUNDAY . 259-106

Now 2 = 0.5, y = 3, 2 = 6.9

Ne have to tend y, and 2,

ie you and 20.

SEPTEMBER 2018 260-105 9 not recin Enter's met 21 + H & (M, 21, 51)  $= 3 + (0.5)(-\frac{31}{31})$  $=3+(0.5)(-\frac{3}{2})=2.25$ ·· \\ \( \gamma\_2 = 2.25 \) =) \( \gamma(1) = 2.25 \) 22=21+hg(24,4,24) = 6.9 +0.5 [4-0.32,-0.14] = 6.9 + 0.5 [4-0.3(6.9)-1.1(3) 3= 7.715 217-4= (1)5/18

SEPTEMBE TUESDAY 261-104 Week 38