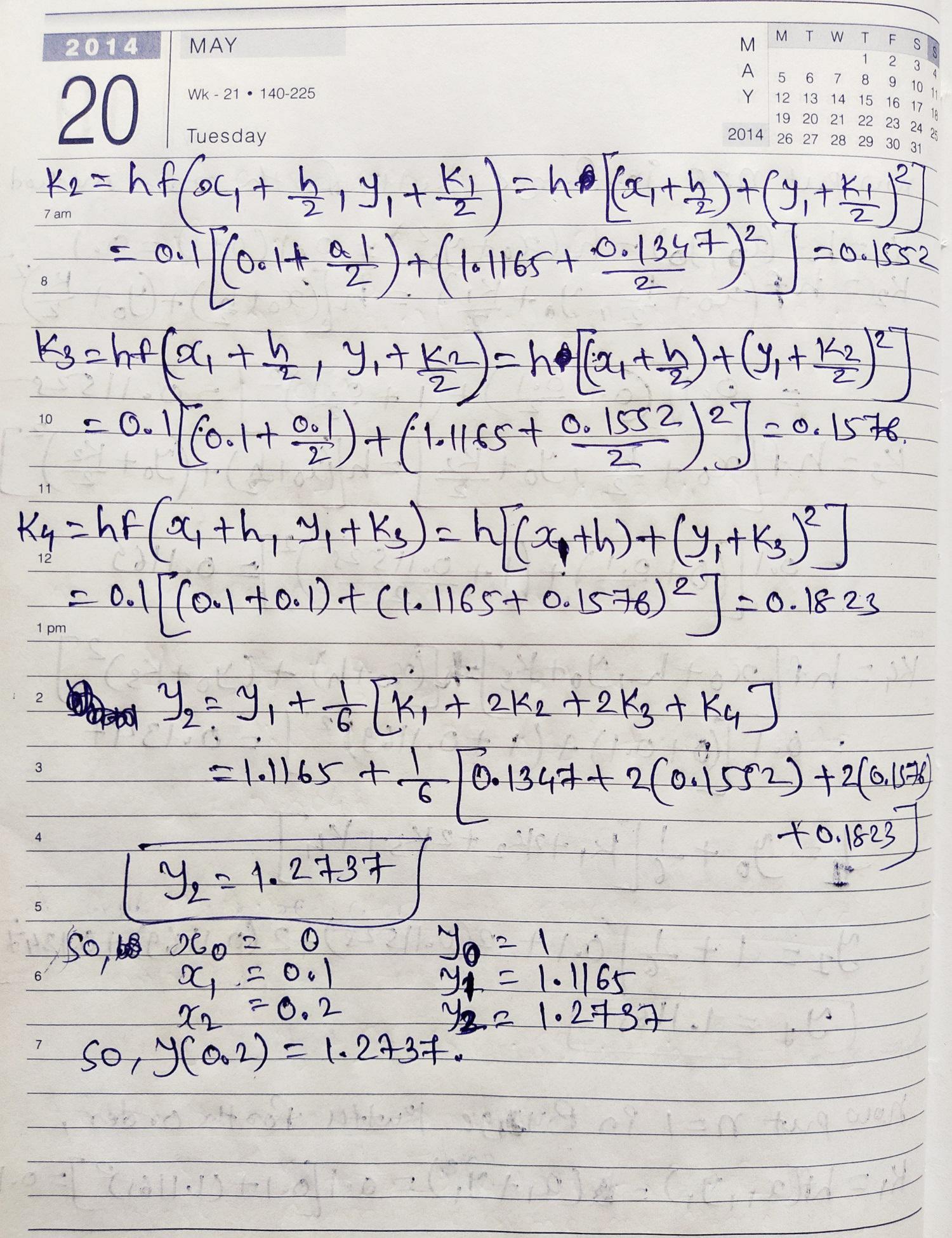


MTWTFSS	MAY 2014
2 3 4 5 6 7 8 U 9 10 11 12 13 14 15 N	Wk - 21 • 139-226
16 17 18 19 20 21 22 16 27 28 29 2014	Monday
now put noo in Rynge-k	cutter Perth order moderad
7 am	2
$K_1 = h + (x_0, y_0) = h(x_0 + y_0)$	0)=0.1(0+1)=0.1
2 - 1 20+ 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1)=h/(x0+b)+(y0+ 51)
9 19 54 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6	MARIO DE PORTO
= 0.1 (0+0.1)+	(1+0-1)2 = 0.11525
10 1/2 DD C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 27
K3=hf/x0+h, y0+K2	= hi/(x0+12)+(Jo+ 52)
$= 0.1 \left(0 + 0.1\right) + \left(1 + 0.1\right)$	0.11525) = 0.1165
K4=hf(200+h, yo+Ks)=16 = 0.1 (0+0.1)+(1+0	Par-+12) + (v + Ke)27
19 - 11 - 13 - 12	(CO11) (CO115)
= 0.1 (0+0.1)+(1+0	.1169)2 = 0.1347
7-30+1-1-1-1-2-42	1K2+1K4
106	F8F9, 1-12
91= 1+ 6 0.17 20	011528)+2(0.1169)+0.1347
y = 1.1165	
	1560,1 - (000)H 00
	12. Her Postly order.
now put n=1 in Runge	Kunga Forgo Ordon
K, = hf(x, y,) = b(x, + y,)=0-10-1+(1-1165)=0-1347
You cannot strengthen the weak by	weakening the strong.



2 3 4 5 6 7 8 0 0 2 1 22 10 11 12 13 14 15 N Wk-21·141-224 21 17 18 19 20 21 22 20 14 Wednesday Wednesday Wednesday Wednesday Y(x0) = Yo y(x1) = Y, y(x2) = y-1, y(x3) = y-3, Where a of a first interval h. Mi me's predictor formula
Wednesday Wednesday Wednesday Wednesday Y(x0) = Y0 y(x1) = Y1 y(x2) = Y2 y(x3) = Y3,
Consider initial value problem dy fla,y), y(ao)= yo y(21)= y, y(22)=32, y(23)=y3,
Consider initial value problem dy =fla,y), y(a0)=y0 y(261)=y1 j(c2)=32 j(a3)=y3,
y(x0)=y0 y(x1)=y, 1y(x2)=y2, 1y(x3)=y3,
whose apply as as use equidistence Value's
of a with interval h.
Mime's predictor formula
yp=y0+4h(2fj-f2+2f3)
milbes Corrector formules, miles
74 = 42 + 4 (f2 + 4 f3 + f4).
J4 - J2 13 (12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
110+0+6023-120AALHEDE ALLEDE ALLEDE O 10 3
* Find y when 2=0.8 given dy =x-y2,
y(0)=0, y(0.2)=0.02, y(0.4)=0.0795, y(0.6)=0.178
y(0) = 0, y(0.2) = 0.02 y(0.4) = 0.04 y(
coli- Have floc, y)=x-y2, h= 10.0.2 9 Herval of
10-5-42
2n Un 12-0-0=0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
(0.4) - (0.0795) -
0. 4 0.1762 f3=23-y3=2(0.6)-(0.1762)
0.8 49-3 - 3-(34)=
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