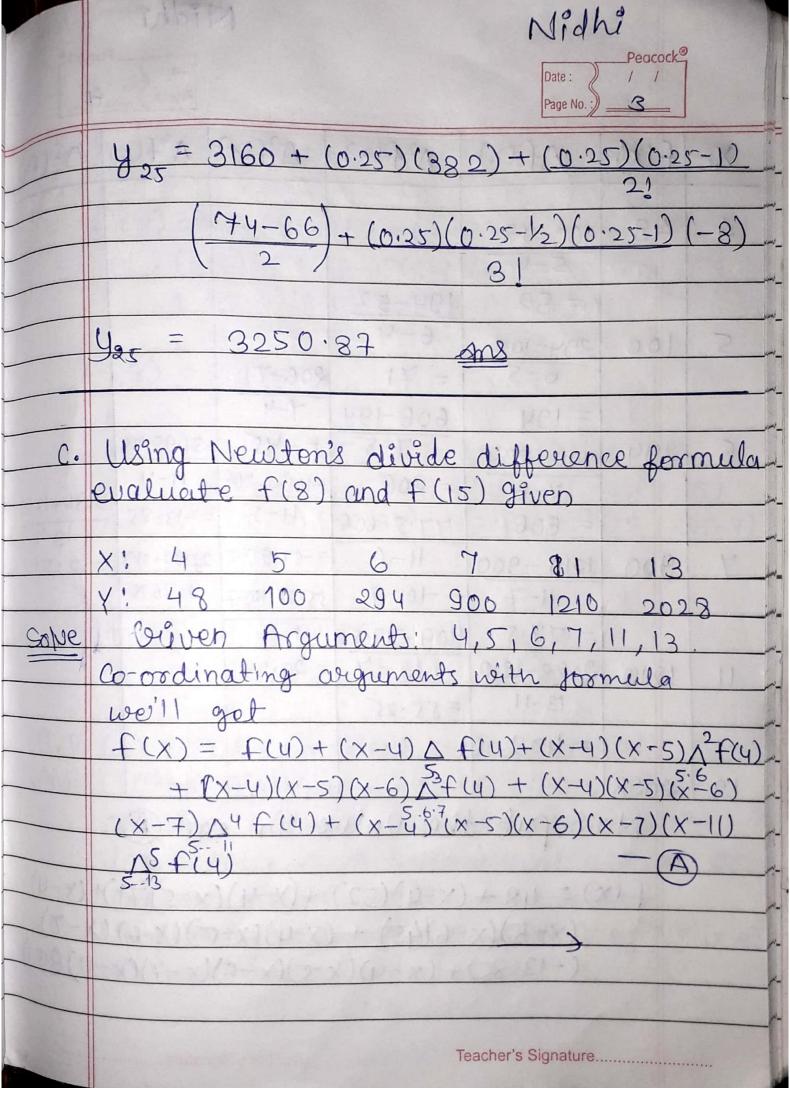
Assignment - 02 Page No. :) _ (a.) Explain forward and backward difference. Forward Difference > The differences 4.7. when denoted by dy, dy, dy, -- dy, ove suspectively, called the first forward differences. Thus the first forward difference QHP! DYS = YSHA - YS Buckward Differences + The differences J1-y0, y2-y1. -- yn - yn-1 When denoted by dy, dy, -- dy, diespectively, are called first backward difference, are called first backward difference. Thus the first backward difference are: 74x = 4r - 4r-1 b. Apply Bessel's formula to obtain 425 given.

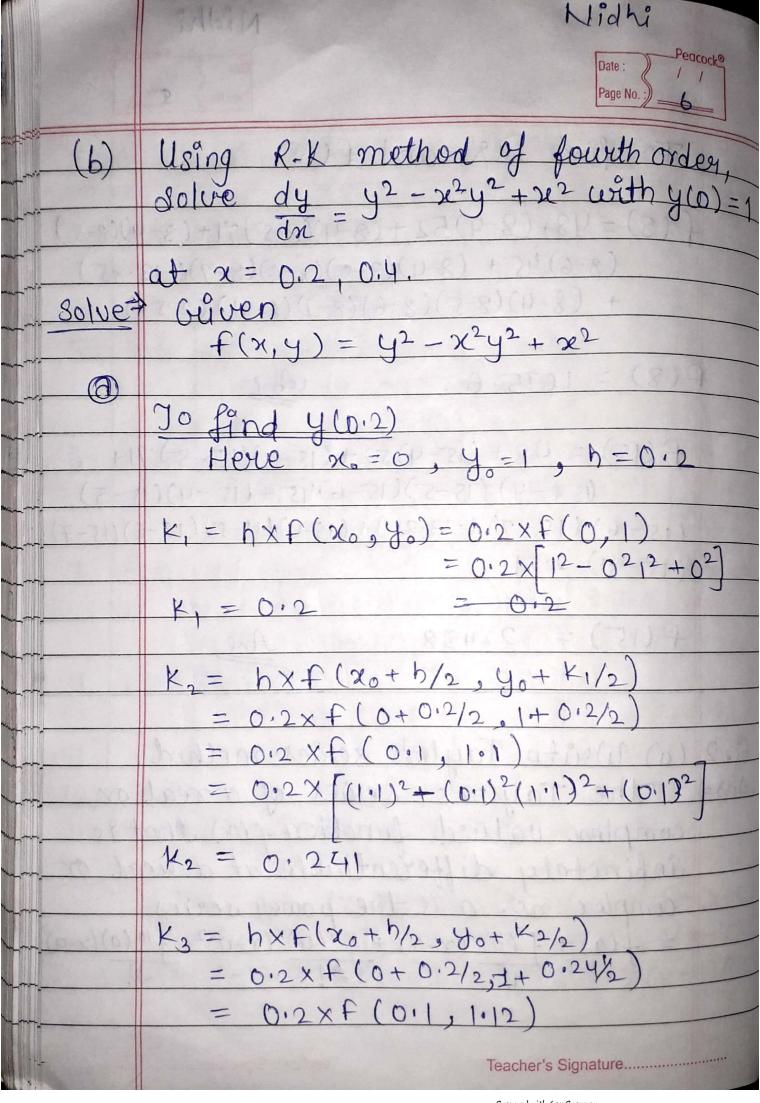
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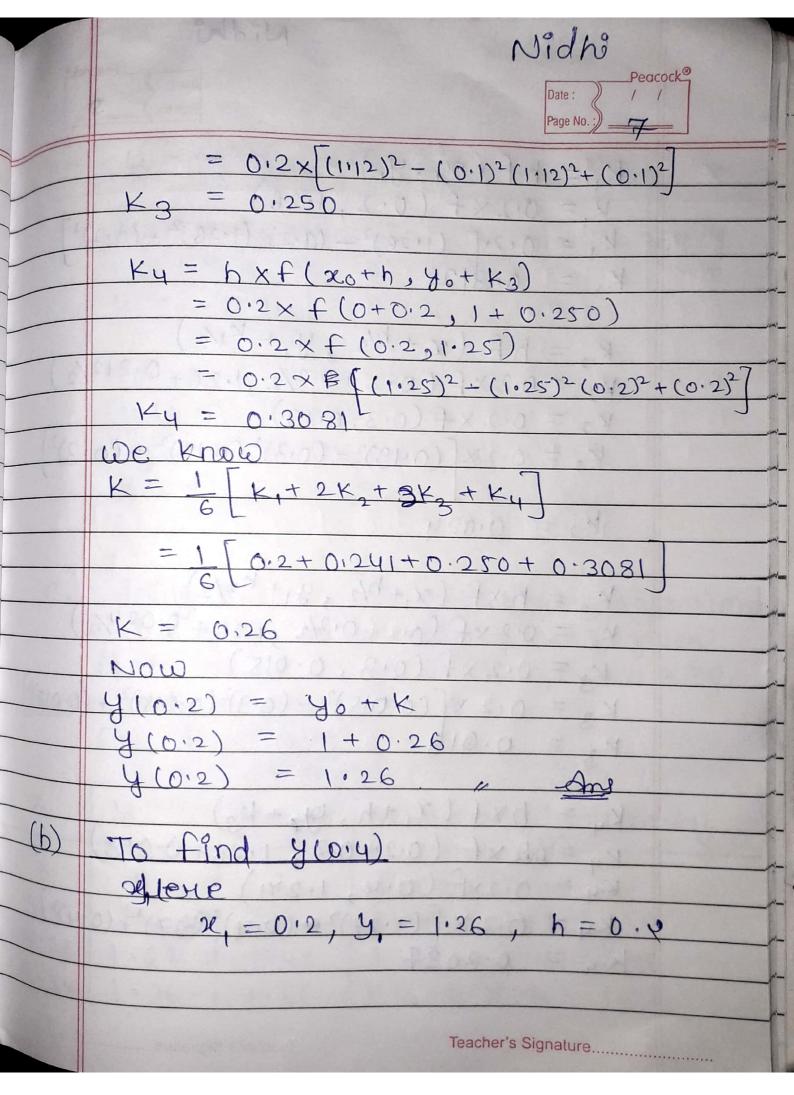
				Nidhi"	
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	Mark State of the	00-	Jasma	R. Halle Jan	
	Y20 = 285	4, 4 = 9	3162, 42	= 3544, 4	= 3992
	10 104 10 1039 1011	u	NU	124	Δ3 ₄
- Solve	angenetic	74	Ju	highen y	da
	U = W -	. 17-	12 13 -	U	
	26	28547	pd hat	mon mar	01
La Warden	A TERM	2854	- 308	174	
	24	3162 3	000	19	-0
	28	3544	. 382	66	
	20	3 3 9 9	448		
1330	32	3992	Dillogen	homoust	100
	- 13	JU- U	V-Y		
	formul	a link	Hid Fr	nen den	
1-1-00	Nach -127	ALL LI	17/n20	L 1211) 1	((u-1/2) (u-1)
The laws of	94=9,+	UAG + 91	2	1 2 10 +	31
	×	134 + 10	4+1) 4(4-1	1(4-2) (64)	+ 14-1
		Jal	4!		2
	here	u = x	2-20==	25-24	= 4
		7 7	h	4	
	1529_ MIT.	numa	1 W 100	9460 -30	0
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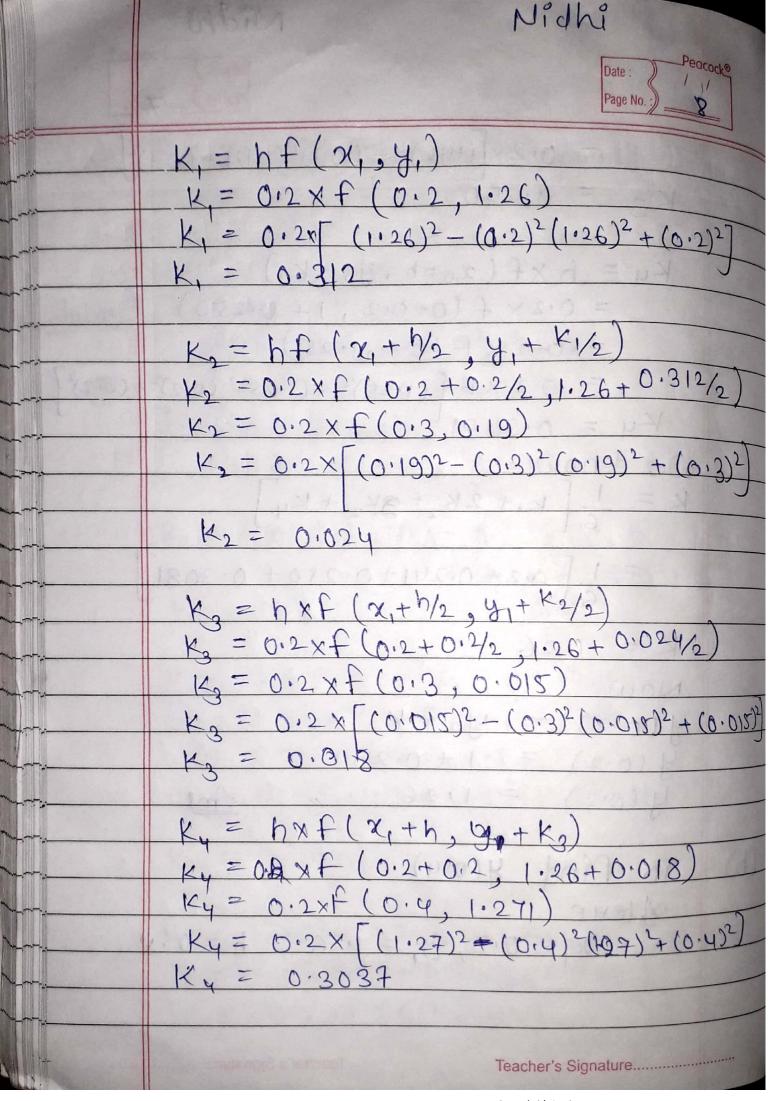


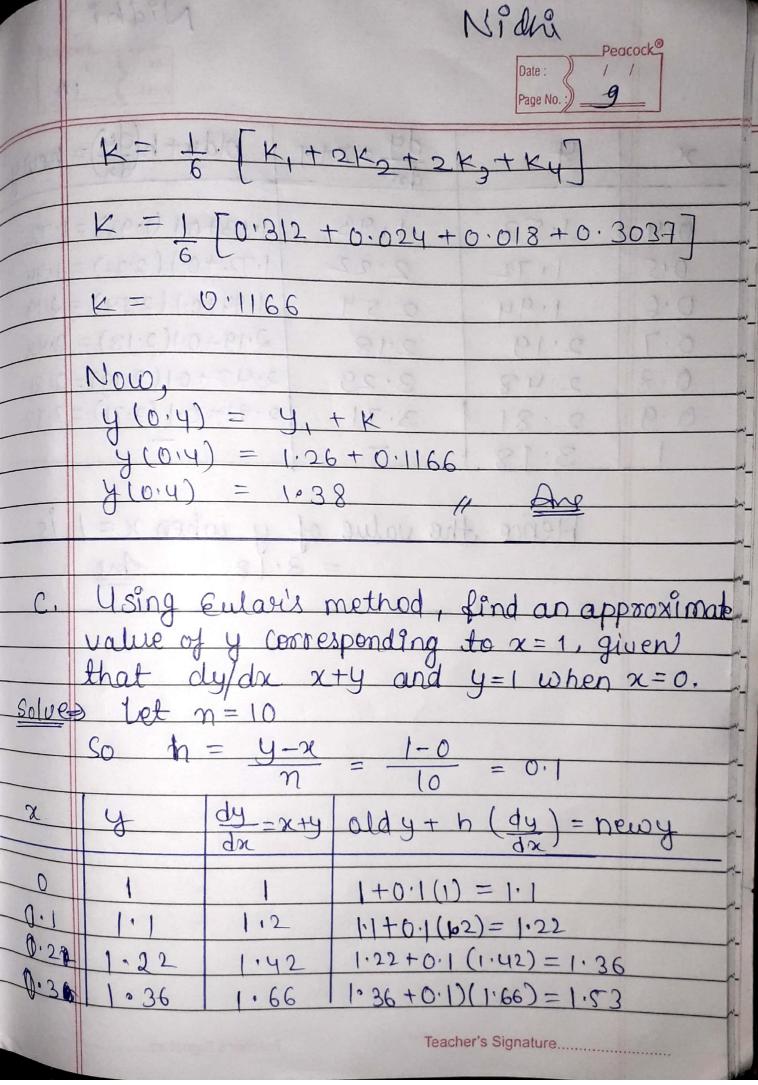
		1610	Nidhi			
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X	£(x)	$\Delta f(x)$	Votex)	$\nabla_3 \mathbf{t}(\mathbf{x})$	D'fcx	DELE
4	48	100-48	1/70,001 4-	09-14		
5	100	= 52 294-100 6-5	194-52 6-4 = 71	206-71		
6	294	= 194 900-294 7-6	606-194 7-5 = 206	7-4 = 45 -105.7-206		9.36+13.8
7	900	= 606 $1210 - 900$ $11 - 7$	77.5-606 $=-105.7$	=-51.95 55.25+105.7	=-13.85 $22.99+51.95$ 9.3675	13-9
	1210	= 77.5 2028-1210 13-11	409-77.5 13-7 =55.25	M-6 = 22.99	104,138) 118330000000000000000000000000000000000	30/18
(01)	(8-x)	= 409	7 (D-X)	4(0)]	=(x)	
13 2028 Now put the value in eqn (A) $f(x) = 48 + (x-4)(52) + (x-4)(x-5)(x-6)(x-7)$ $(x-5)(x-6)(45) + (x-4)(x-6)(x-7)(x-1)(x-6)$ $(-13.85) + (x-4)(x-5)(x-6)(x-7)(x-1)(x-1)$						
1	Teacher's Signature					

	Nidhi						
	Date: / /						
	Page No.:						
	To find F(8) and F(15						
	f(8) = 48+(8-4)52+(8-4)(8-5)71+(8-4)(8-5)						
	(8-6)45+(8-4)(8-5)(8-6)(8-7)(-13.85)						
	+ (8-4)(8-5)(8-6)(8-7)(8-11)(2.51)						
	- 1 2 + 2 hy x - 2h - (h x) + 1						
	F(8) = 1675.6. Ang						
	CONDETENDO						
	f(15) = 48 + (15 - 4)52 + (15 - 4)(15 - 5)71 +						
	(5=-4) (15-5) (15-6) 45+ (15-4) (15-5)						
	(15-6) (15-7) (-13.85) + (15-4) (15-5) (15-6) (15-7)						
	(15-11)-2.5100						
	f(15) = 22488 Ang						
	(c)+++p, e/drox) axa = x						
	19 (A 40 +1 , C 40 +0) 4 x 00 =						
6.2	(a) Write Taylors series method.						
Eene	The Taulor's series of a real or						
	complex valued function f(x) that 9s infinitely differentiable at a real or						
	infinitely differentiable at a real or						
	complex no. a is the power series						
	$= f(a) + f'(a) (x-a) + f''(a) (x-a)^2 + f'''(a)(x-a)^3$						
	11 2!						
	(+1+1++10) 1x010 =						
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X	4	dy = xoty	oldy+h(de	1)= Newy		
0.4	1.53	1.93	1.53+0.1 (1.93			
0,5	1.72	2.22	1.72+0.1 (2.2	2) = 1.94		
0.6	1.94	2.54	1.99+0.1 (2.52	1) = 2119		
0.7	2.19	2118	2.19+0.1(2.18) = 2.48		
0.8	2.48	3.29	2.48+0.1(3.2	9)=2.81		
6.9	2.81	3.71	2.81+0-1 (3.7	1)=3.18		
	3.18	an Hotelde	10 = (10 = 10 0			
	SENT SCHOOLS					
	Hence the value of y when x=1 is					
	= 3, 18 Ang					
A MANIXON	ignar bass	hadrova 1	rearris Buss			
	B. J. S. W.	postbood as	al I' in 31H	10		
10=0	nada 1=h	THE PARTY		2.66		
,		n of the	-U = ch	0		
	1.0 =	n = 10				
1	10-1-0000	1 + 11 6 7 8 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1	_ Eb _ 4	1		
0	Labia		хЬ			
	1.1000	(11-10+1)	1 1			
	1001=10	4)1-1-1-1	211 112			
~	DE-1 = (IB-1)	FOREST S	H1 46.	1		
	2-1=(001)(100+28-11	3.1 38.0			
	Teacher's Signature					
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