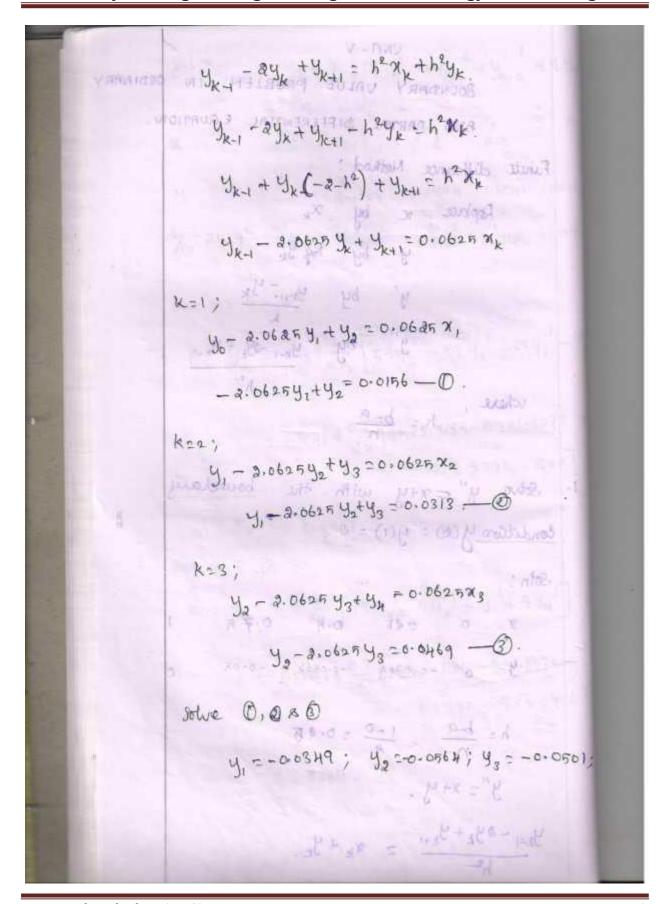
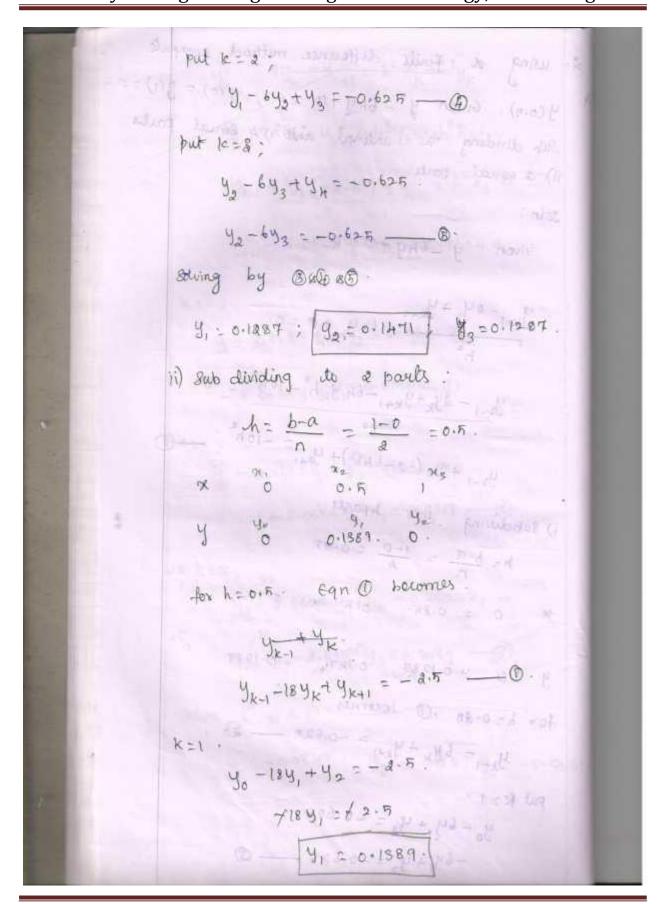
1	BOUNDARY VALUE PROBLEM IN ORDINARY
	BOUNDARY VALUE PROBLEM IN ORDINARY
	AND PARTIAL DIFFERENTIAL EQUATION.
	Finile difference Method:
	Replace & by Xx
	by E tyly - 10
	y' by 4k+1. 4k
	y" by y _{k-1} -y _k + y _{k+1}
	where, h= b-a
	Exerco ac sut passes - p
1.	Solve y" = x+y with the boundary.
	Condition y (0) = y(1) = 0.
	-Sofn:
	x 0 0 €5 0.5 0.7 5 1
De.	y 0 -0.0349 -0.0564 -0.05 0
	The second of th
	h= ba 1-0 = 0.25.
3(0)	y"= x+4.
	yk+1 - 24 + 4 + 7 = xk + ye.



```
2- using a finite difference method compute
343/14 y (0.5). Given y"- 6xy+10 =0; y(0) = y(1)=0.
      Sub dividing the interval into 1) 4 Equal parts.
      n) a equal parts.
      soin:
        4 ven y"_6 hy + 10 = 0
       9x-1-24x+4x+1 = 644x+00=0.
         y_{k-1} - ay_k + y_{k+1} - 64 y_k h^2 + 10 h^2 = 0
       yx-1 + yx (-2-6460)+ yx+1 = -10h2.
    1) subdiving into 4 parts.
         h = \frac{b - a}{n} = \frac{1 - 0}{4} = 0.4\pi
      X 0 0.85 0.5 0.75
       y 0 0.1287 0.1271 0.1287
      for he o an , o becomes,
          yk-1-68x + 9x+1 = -0.627 - 0.
      put k=1
            40-64,+40=-0.625
              -64, +4 = -0,625 - ®
```



solve by finite difference method, the BNP

$$y'' - y = 0$$
 where $y(0) = y(1) = 1$; take

 $4x = 0.45$

Seth:

 $y'' - 3y'_k + y'_{k+1} - y'_k + 2 = 0$
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 $y'' - 3y'_k + y''$

· dAs	te = 18 Find Line as a supply to the state of the same
	42-8-062843+44=0.
	y8.06axy3+1=0.
	y2-2.0629 43 = -1
	Solve by 3,00 40
	4, 0.8151 > 92 = 0.4484 > 43 = 0.4000
a#131/4	Classification & partial differential Equalion
	consider, Adu +8 2/4 + C 2/4 + D 2x + E 24 + Fu =0
	pl no com the p.D. 5 is elliptic .
9-	82-400 the p.D.E is parapolic
	Be-ABC >0 The P. D. E is hyperbolic.
	One dimensional heat equation:
	The One dimensional heat egn is
	3x2 = 0 3E (61) NXX = 0 NP
	on the same of the
	A=10; B=0; C=0 = H = VARADE = V

Be-hac = 0-AXIX D. to les & white it word The one dimensional heat egn is parabolic There are two methods to solve one dimensional head equations i) Bender-Schmidt formula (Explicit) in) Crank - Mcolsion method (Implicit) Bender- Schmidt formula: uzisti = ui-ij + Ui+ij Here, k=ah2 Solve Us= Umx in ornin, the given that u(o,t)=0, u(x,t)=0, u(x,0)=x2 (2x-x2) Compute u upte 3,800 with 4x: 1 by using sender schmidt formula. I I was

96	St-hateo-June of
(given ut = uxx => a=1
production	The one characterist 12x4=177
3	b=aht = 1x1 = 0.5 . and . 200 Ball
	A made and from the and
	Ui, j+1 = Wi-1, i + Ui+1, i i homenamulo
	Sungario Ladan colgania glaces A" 5
	t 0 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	o o an sh
	12 0 42 8H 11H 72 0
	0.5 0 ha 8h 11h 54 0
	0 A 89 6.
	1.5 0 39 60 67.5 89 0.
	73.29
	24. 45
	2-5 0 26-625 39-75 45-5 3 0 19-875 35-0625 32-25 2)-75 0
	3 0 19.875
	the state of the s
ter	100 to 100
2-	solve un = saut / h-0.00 for it >0/
	orax11 mith ((011) =0 - (1(x10)=0)
	went) sands schools deminde to the

	soln.
	Uggs = 82 Ut a= 80.
	h= 0.25.
	$k = \frac{ah^2}{a} = \frac{32 \times 0.25}{a} = 1$
	Ui, jan - Maris + Maris
	4. solumnity - Mikelinks whise
	1 0 0.00 0.00 0.75 1
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	180000000000000000000000000000000000000
05	2 0 18 0 0 18 0 0 0 0 5 2 0 0 18 0 0 0 18 0 0 0 18 0 0 0 18 0 0 0 18 0 0 0 0
	0 0.25 }
7	4 0 0 125 0 · 5 0 · 625 4
	5 0 0.875 d.85 5.
3.	Sive ou = ou subjected to u(o,t)=u(1,t)=0
	and u(x,0)=sin(xx) using bender schmidt
	method.

soln:		a Track	4.1			
	200 Sou	= Ot	437	100 - 20 - 20 - 10 - 10 - 10 - 10 - 10 -		
	Usia =	U.	azi			
				1 1/00	2.8	
1	h = B-	n = 5	- 2 016			
	V - 0	he Ixo	12	Da. 111	ល	
	8	5	L 3	ook .		
Bende	e Sch	midth	formulo	is,		
	u,	j+1 = U1	-1 j + Vi	स्यं व	2/2	
		10	2	0	0	
2				0.6 0		
0	6	0.7818	0.9811	0-9510	o-5846	1
0.03		100	D. 7695	०.प्रभूत	०.भपत्र	ı
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0.00	and the	A 911.0	0.5634	6-५०३५	0.3113	
6,08	0	0.2519	0.4048	০-৸০বদ	6.2519	
(34D # + (110731	0.2028	0.3297	0.3294	6-2038	
irela 2 sa	Benel	press	(Dert) n	12 - (010)	N Sono	
-		0				

Consider. Sure a sure consider.

Consider. Sure a sure cone dimensional head eqn).

A to a hard a sure consider.

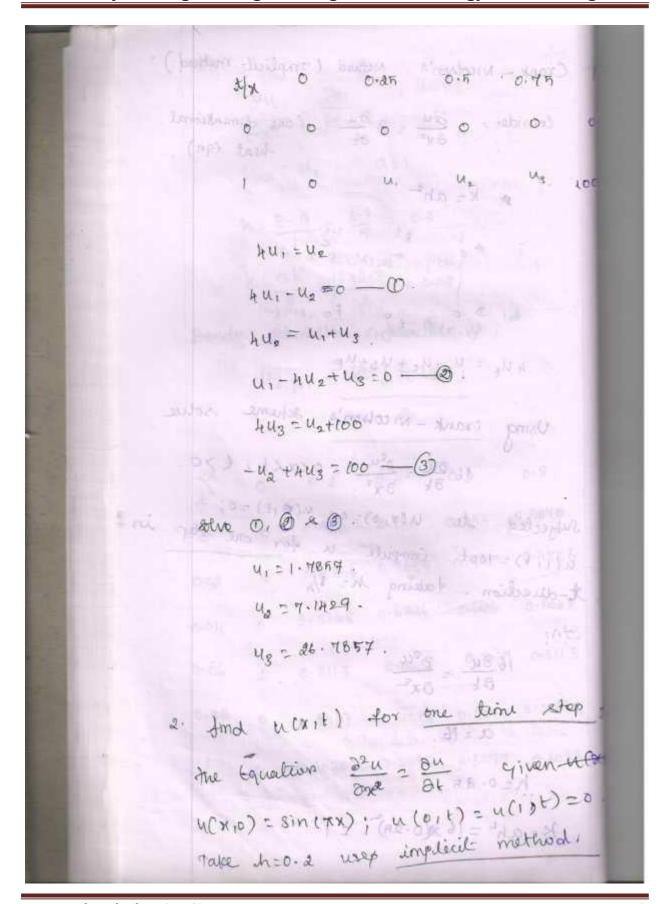
A to a hard a sure consider.

A to a hard a sure conson's scheme solve.

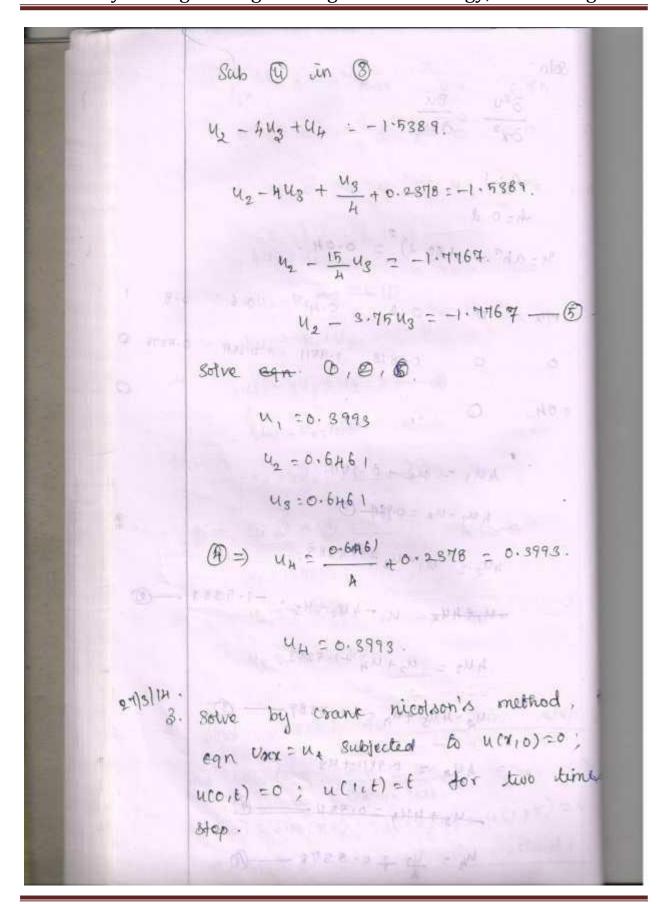
1. Using crank - Nicolson's scheme solve.

1. Subjected to
$$u(r_1, 0) = 0$$
; $u(x_1, t_1) = 0$; and $u(1, t_1) = 100t$. Compute u for one step in $u(1, t_1) = 100t$. Compute u for one step in the direction. Falling $h = \frac{1}{4}h$.

4. A sure consoner is a sure of the sur



	8dn: 0 1/2 0 1/2
	$\frac{\partial^2 u}{\partial x^2} = \frac{\partial u}{\partial t}$
	A=1 - AVX -
	-h - D. A -
	4-ah2-110.2)2= 0.0H.
	t)x 700 0.8 0.4 0.6 0.8 1
1	C 0.5878 0.9511 0.9511 0.5678 C
	u, u, u ₃ u ₄ C
	441 = U2 + 0.7911
. 6	
	HU2 = 41+45+1-4389.
	-U,+442 U,-4U2+U3 = -1.5389 3
1	4U3 = U2+U4+1.5389.
-25	u2-4 u3 + u4 = -1. 5589 - 5
	the term of the basis of the party of the pa
1 18	The state of the s
	-43+44+ -0.9511 - O
	My = Mg + 0- 8378



Sin:

$$u_{201} = u_{4}$$
.

 $a = 1$
 $h = \frac{b-a}{n} = \frac{1-0}{4} = 0.2\pi$.

 $k = ah^{2} = 1 \times 0.25^{2} = 0.0625$.

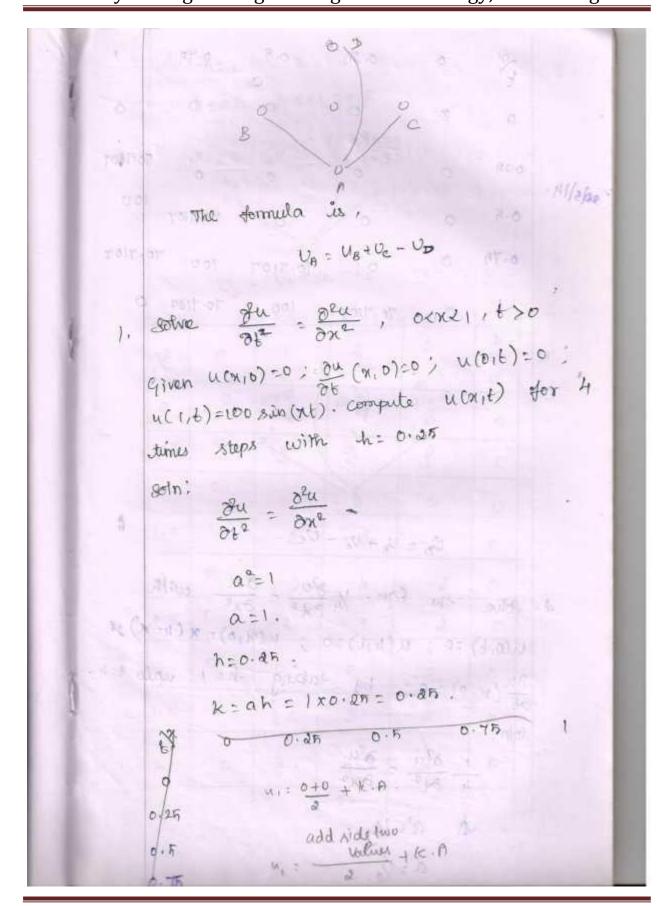
 t^{2}
 $0 = 0.25^{2} = 0.0625$.

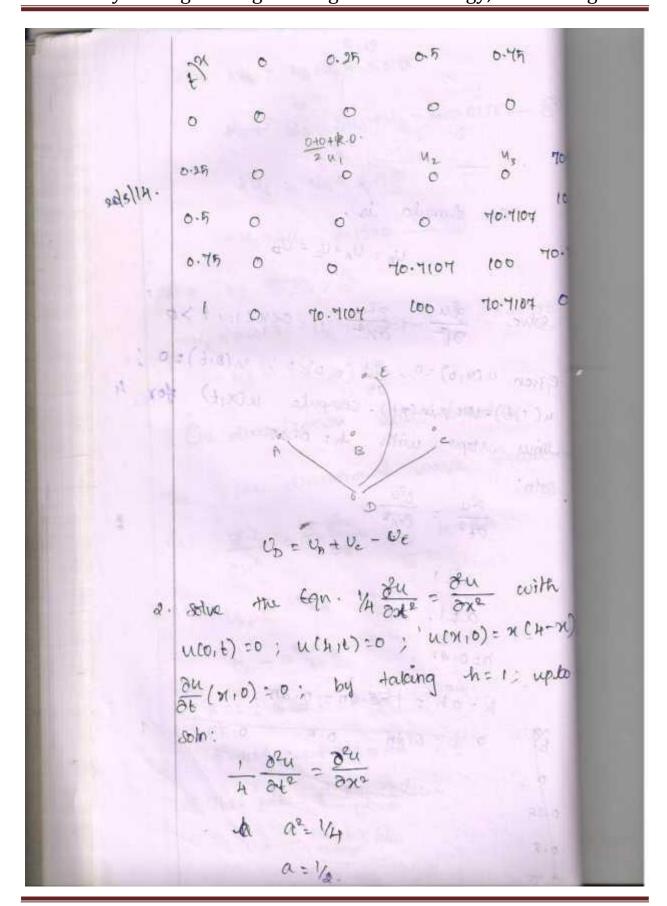
 t^{2}
 $0 = 0.25^{2} = 0.0625$.

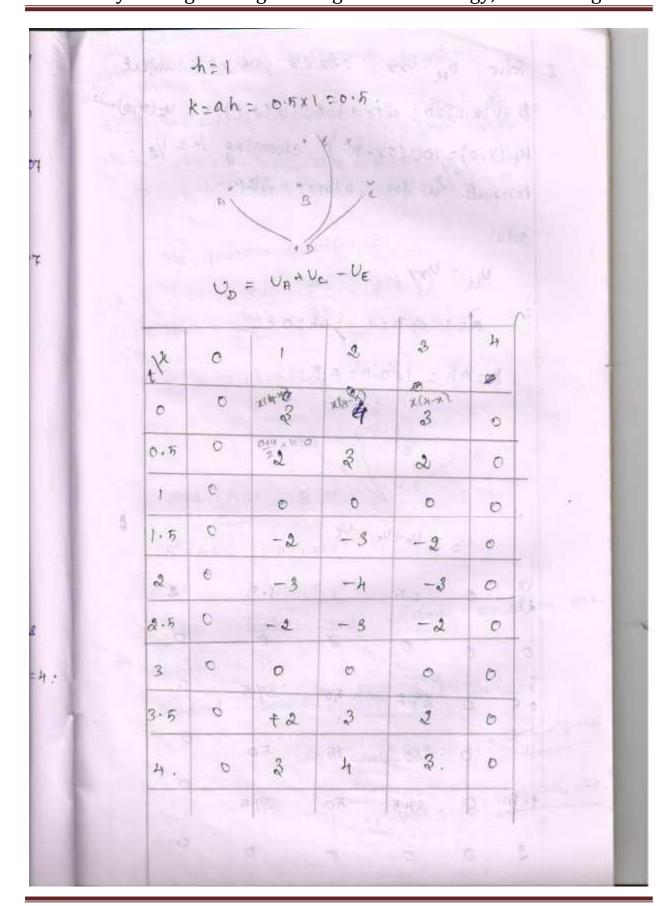
 t^{2}
 $0 = 0.25^{2} = 0.0625$.

 t^{2}
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445 = 44+46 + 0.0198.
My + 14- 445+46=-0.0178-6
446 = un + 0.1920.
-U5+AU6 = 0.1920
2-tve by (D, D, & D)
Ux = 0.0089 Un = 0.0191 46 = 0.0848
2 2012 2 2012 2 2012 2 159-9 0 Kind -2
One dimentional name Equation:
an dimentioned wave Equality
$\frac{\partial u}{\partial x^2} = a^2 \frac{\partial^2 u}{\partial b^2}$, $k = ah$
Uxx = a VH
$U_{xx} - \alpha^2 V_{tt} = 0$
A = 1 ; 8 = 0; C = a = 2 = 2 = 4 = 4 = = = = = = = = = = = =
B2-4AC -0+4a2 = 4a2 >0
The pole is hyperbolic.
The Color of the Color
20 FH20-0 - 12 - 12 L

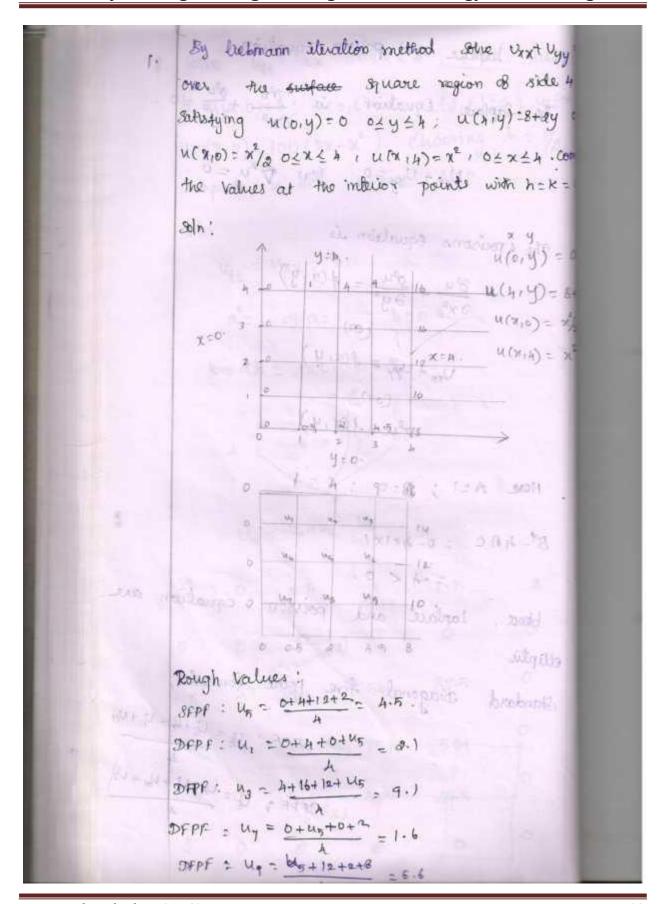


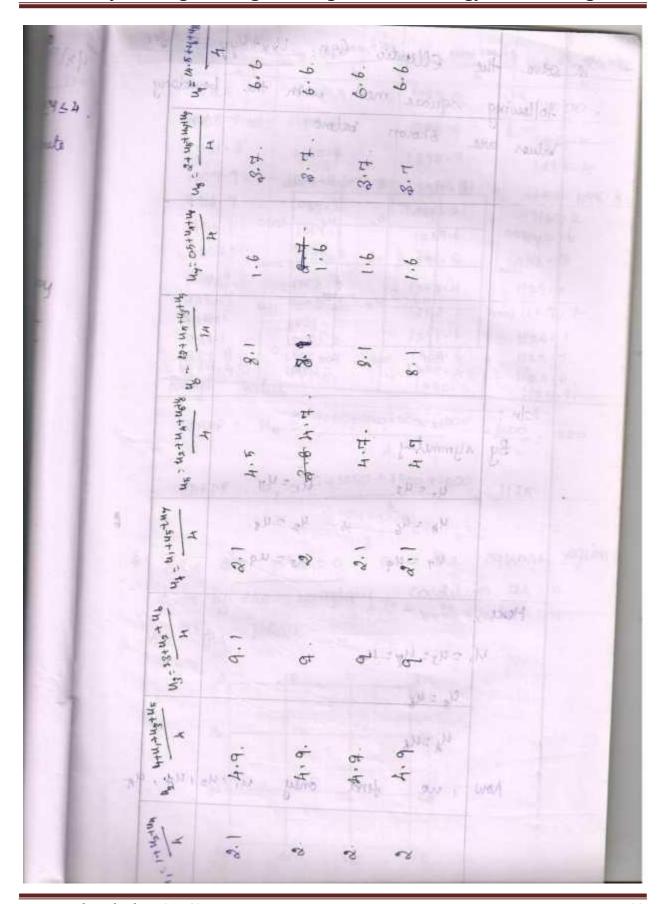


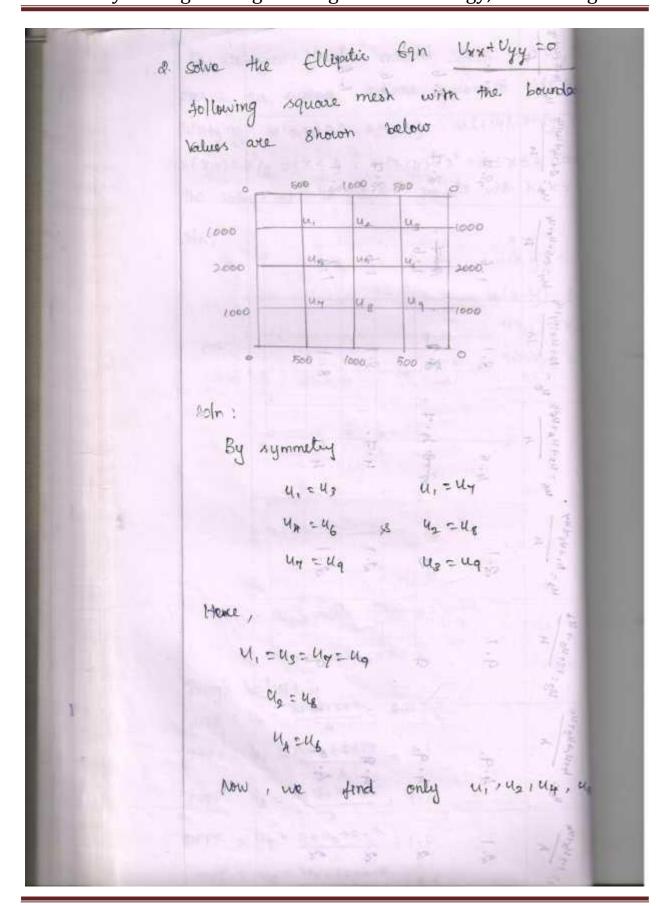


4	. Solve Ut = Uxx · Oxxle; 670. subjec	
	to u(x,0):0; u(0,t)=0; u(0,t)=0; u(+)	
	4 (x,0)=100 (9x-x2) choosing h= 1/2	
	compute in for 4 times step.	
	compute v 40	
	soln'.	
	utt = Wxx.	
	a=1 =) a=1 ; h=0.5.	
	0 0 10	
	10=ah= 100.0=0.0.	
	0,6	
	A 2 8 0 06	
	N - VF	
	UD = VA+VC - VE	
	12 0 0.5 1 1-5 &	
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	7 d S 70	
	0.5 0 9710	
	1 0 50 75 50	
	1+5 0 87.5 50 37.5.	
	1+5 0 39.5 50 39.5.	
	20000	

1700	1/4/14. Laplace and poisson Equation.
20	The Saplace Equation is $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = 0$.
	Unx + Uyy = 0 . (61)
	The poursons Equation is
	$\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = f(x,y)$ (91)
	Uxx + Uyy = f(x, y)
	2u = +(x, y)
1	HONE A=1; B=0; C=1
1	B4-40C = 0-4x1x1
1	Hence, Laplace and poisson equation are
1	elliptic Standard Diagonal five point formula,
	(x) OF PF : UE = UN+VC+VH+US (x) OF PF : UE = UN+VC+VH+US
	Sold = hat hat a sold a





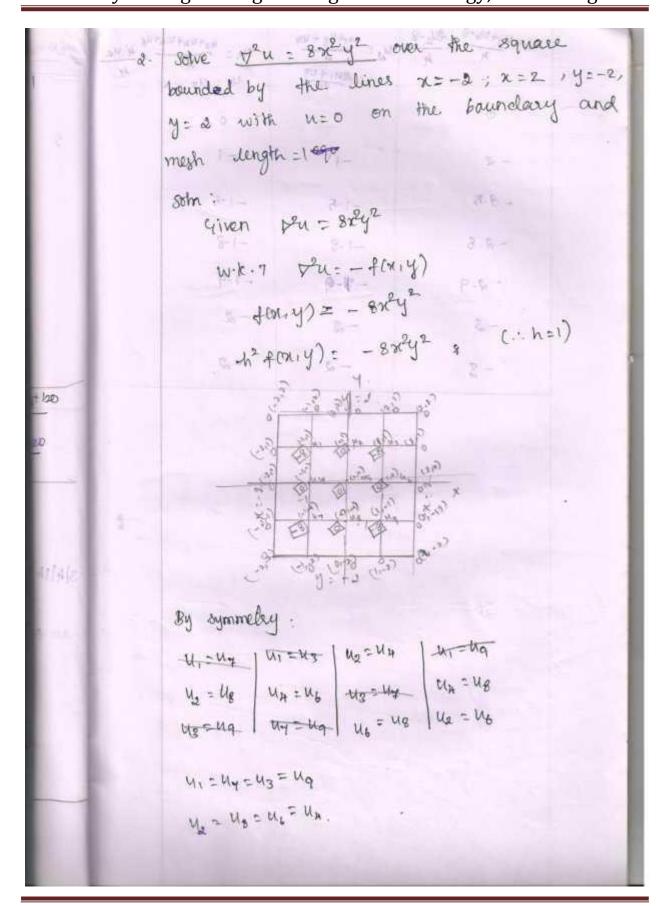


11.45 11	2.87于2月	U, = 1500+Uzt Up	49:1600+24,+45	U4 - 1000 +24	+ 3 14 = 242 +244
1031.3. 1140.7. 1390.7. 1465.4. 1007.9. 1639.0 1070.3 1390.0. 1465.4. 1007.9. 1639.0 1070.3 1390.0. 1465.4. 993.7. 1017.6 1267.6 1142.6 946.3 1004.4 1254.4 1129.4 939.7. 1000.2 1251.1 1251.1 1126.1 938.6 1001.1 1251.1 1126.1 938.1 1000.8 1250.6 1125.4. 9387.9 1000.3 1250.6 1125.4. 9387.9 1000.3 1250.6 1125.4. 1125.4. 1125.3. 8PPF: Un = 1000+2000+2000+1000 A 1000 DFPF: U, = 0+1000+2000+1000 A 1000 3. Sive Sa Du = 0 even the square region by the boundary condition as in given by the boundary condition as in					
1031.3. 1140.7. 1390.7. 1465.4. 1007.9. 1689.0 1070.3 1300.07 1464.1/95.9. 978.7 1017.6 1267.6 1142.6 946.3 1008.8 1258.8 1133.8 441.9 1004.4 1254.4 1129.4 938.1 1000.8 1251.1 1126.1 938.1 1000.8 1250.4 1255.4. 937.9 1000.3 1250.4 1125.4. 937.9 1000.3 1250.3 1125.4. 88PPF: Un = 1000+2000+2000+1000 - 6000 - 1500 DFPF: U, = 0+1000+1500+2000 - 1125 3. Salve 20 20 20 - 0 ever the 3quare rag given by the boundary condition as in given by the boundary condition as in		ellas	1187-5	1437.5	1-4
1004.9. 1000.3 1300.4 1454 1199 998.7 1009.6 1267.6 142.6 946.3 1008.8 1258.8 1129.4 989.9 1002.2 1251.1 1126.1 988.6 1001.1 1251.1 1126.1 987.9 1000.2 1250.6 1125.4. 987.9 1000.3 1250.4 1125.4. Rough value: 8PPF: Un = 1000+2000+2000+1000 -6000 -6000 -4 DFPF: U, = 0 -600+2000+2000 -1000 -60		1068-8 10114	+150-4	1380-9	1834.4
998.9 1019.6 126.2 1160.2 955.1 1019.6 1269.6 1183.8 941.9 1002.8 1254.4 1129.4 989.9 1002.2 1251.1 126.1 938.6 1001.1 1251.1 1126.1 938.9 1000.8 1250.4 1250.4 1125.4. 939.9 1000.5 1250.3 1125.4. 939.9 1000.5 1250.3 1125.3. Rough Value: 1000+2000+2000+1000 _ bax 1500 A		1031.3.	1140+7.	1390.4	1865-4
998.9 1019.6 1269.6 142.6 946.3 1008.8 1458.8 1133.8 441.9 1004.4 1254.4 1129.4 989.9 1002.2 1281.1 1126.1 938.6 1001.1 1251.1 1126.1 939.9 1000.3 1250.6 1125.9. 939.9 1000.3 1250.4 1125.4. 1959.9 1000.3 1250.4 1125.4. Rough value: 8PPF: Un = 1000+2000+2000+1000 -6000 -6000 -4000 DFPF: U, = 0+1000+2000+2000+1000 -6000 -1500 A 1000 3. Solve de Deu = 0 ever the square region by the boundary condition as in given by the boundary condition as in		1007.9.	1009-0 1070-3	1320-01	1454 1195
955.1 1019.6 1269.6 142.6 946.3 1608.8 1258.8 1133.8 941.9 1002.2 1254.4 1129.4 989.4 1002.2 127.2 989.6 1001.1 1251.1 1126.1 989.9 1000.4 1250.6 1125.4. 989.9 1000.4 1250.4 1125.4. Rough value: 8PPF: Un = 1000+2000+2000+1000 - 6000 15000 A 1000 DFPF: U, = 0 ever the square squa		992-9	(035.2		
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