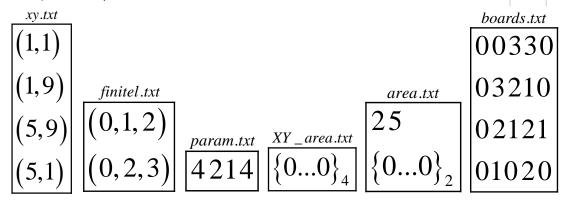
$$\begin{bmatrix} u(x,y) = 10x + 10y \\ f(x,y) = 20x + 20y \\ \lambda = 4 \\ \gamma = 2 \\ \beta = 5 \\ \Omega^n, n = 1 \end{bmatrix}$$

Краевые условия на границах:

$$\begin{bmatrix} R_{03} = III_0 \\ R_{32} = I_0 \\ R_{21} = II_1 \\ R_{10} = II_0 \end{bmatrix} - > \begin{cases} I_0 = 50 + 10y \\ II_0 = -40 \\ II_1 = 40 \\ III_0 = 10x + 2 \end{cases}$$

Содержимое файлов:



Табличка с решением:

X,	X	X` - X	x` - x	
20	19,99999999999986 100,00000000000006	1,421E-014 5,684E-014		
140	139,999999999999	2,842E-014	6,512E-014	ĺ
60	60	0,000E+000		

y axis

 Ω_1

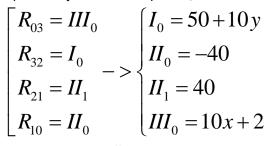
 Ω_2

 S_3

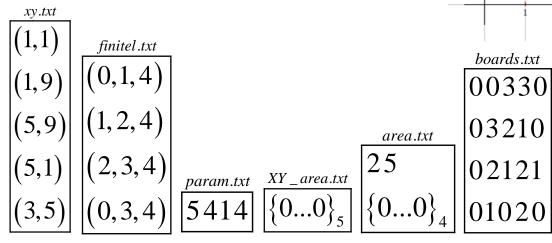
x axis

$$\begin{bmatrix} u(x,y) = 10x + 10y \\ f(x,y) = 20x + 20y \\ \lambda = 4 \\ \gamma = 2 \\ \beta = 5 \\ \Omega^n, n = 1 \end{bmatrix}$$

Краевые условия на границах:



Содержимое файлов:



Табличка с решением:

X`	X	x` - x	x` - x
20	19,9999999999999	3,553E-015	
100	100,000000000000001	1,421E-014	İ
140	140	0,000E+000	2,041E-014
60	60	0,000E+000	I
80	79,999999999999	1,421E-014	İ

y axis

 S_2^0

 Ω_1

2

 S_1

3

x axis

 Ω_2

 Ω_4

 S_3

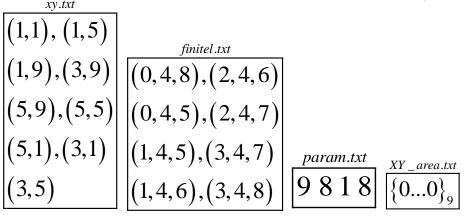
 Ω_3

$$\begin{bmatrix} u(x,y) = 10x + 10y \\ f(x,y) = 20x + 20y \\ \lambda = 4 \\ \gamma = 2 \\ \beta = 5 \\ \Omega^n, n = 1 \end{bmatrix}$$

Краевые условия на границах:

$$\begin{bmatrix} R_{08} = III_0 \\ R_{83} = III_0 \\ R_{37} = I_0 \\ R_{72} = I_0 \\ R_{26} = II_1 \\ R_{61} = II_1 \\ R_{15} = II_0 \\ R_{50} = II_0 \\ \end{bmatrix} - > \begin{cases} I_0 = 50 + 10y \\ II_0 = -40 \\ III_1 = 40 \\ IIII_0 = 10x + 2 \\ \end{bmatrix}$$

Содержимое файлов:





0

y axis

 Ω_4

 Ω_3

 Ω_2

 Ω_1

 2

 S_1

3

x axis

 Ω_5

 Ω_6

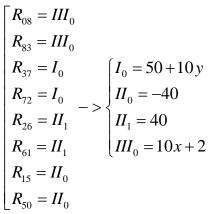
 Ω_7

 Ω_8

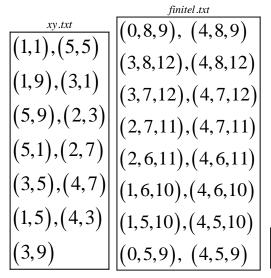
X,	X	x` - x	X` - X
20	20	0,000E+000	
100	100	0,000E+000	
140	140,00000000000003	2,842E-014	
60	60	0,000E+000	
80	80,00000000000003	2,842E-014	4,263E-014
60	60,000000000000014	1,421E-014	
120	120	0,000E+000	
100	100	0,000E+000	
40	40	0,000E+000	

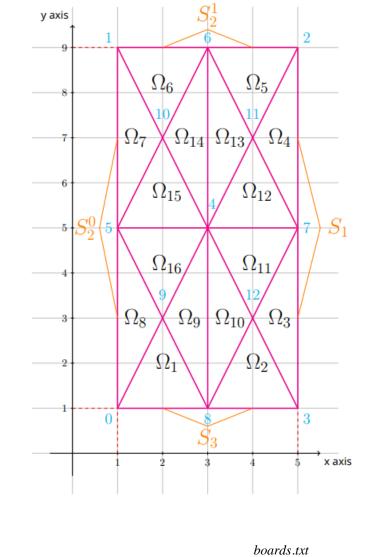
$$\begin{bmatrix} u(x, y) = 10x + 10y \\ f(x, y) = 20x + 20y \\ \lambda = 4 \\ \gamma = 2 \\ \beta = 5 \\ \Omega^n, n = 1 \end{bmatrix}$$

Краевые условия на границах:



Содержимое файлов:





 $\begin{array}{c}
 param.txt \\
\hline
 3 16 1 8 \\
\hline
 \left\{0...0\right\}_{13}
\end{array}$

00830;02621 08330;06121 03710;01520 07210;05020

X`	X	X` - X	X` - X
20	19,99999999999996	3,553E-015	
100	99,999999999997	2,842E-014	
140	140	0,000E+000	
60	60,000000000000014	1,421E-014	
80	79,999999999999	1,421E-014	
60	59,999999999998	2,132E-014	
120	120,000000000000001	1,421E-014	7,079E-014
100	100	0,000E+000	
40	39,999999999999	7,105E-015	
50	49,999999999998	2,132E-014	
90	89,99999999999	4,263E-014	
110	110	0,000E+000	
70	69,99999999999	2,842E-014	

$$\begin{bmatrix} u(x,y) = \begin{cases} y^2, & (x,y) \in \Omega^0 \\ 20y - 19, & (x,y) \in \Omega^1 \end{cases}$$

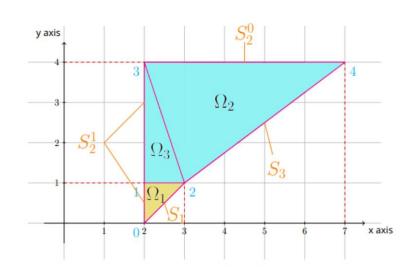
$$f(x,y) = \begin{cases} -20, & (x,y) \in \Omega^0 \\ 0, & (x,y) \in \Omega^1 \end{cases}$$

$$\lambda = \begin{cases} 10, & (x,y) \in \Omega^0 \\ 1, & (x,y) \in \Omega^1 \end{cases}$$

$$\gamma = 0$$

$$\beta = 2$$

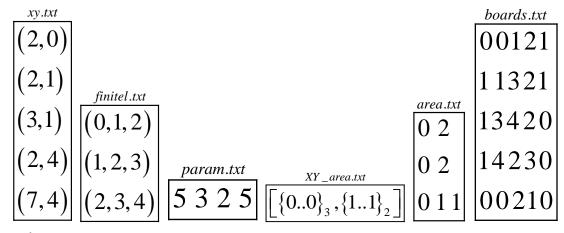
$$\Omega^n, n = 2$$



Краевые условия на границах:

$$\begin{bmatrix} R_{01} = II_1 \\ R_{13} = II_1 \\ R_{34} = II_0 \\ R_{42} = III_0 \\ R_{20} = I_0 \end{bmatrix} = \begin{bmatrix} I_0 = y^2 \\ II_0 = 20 \\ II_1 = 0 \\ III_0 = 20y - 27 \end{bmatrix}$$

Содержимое файлов:



X`	X	X` - X	x` - x
0	0	0,000E+000	
1	1,1335811106252733	1,336E-001	
1	0,99999999999999	1,110E-016	6,636E-001
61	60,350677743769126	6,493E-001	
61	60,9704853519895	2,951E-002	
			'

$$\begin{bmatrix} u(x,y) = x + 6y - 2 \\ f(x,y) = \begin{cases} 5x + 30y - 10, (x,y) \in \Omega^1 \\ 0, (x,y) \in \Omega^2 \end{cases}$$

$$\lambda = 1$$

$$\gamma = \begin{cases} 5, (x,y) \in \Omega^1 \\ 0, (x,y) \in \Omega^2 \end{cases}$$

$$\beta = 10$$

$$\Omega^n, n = 2$$

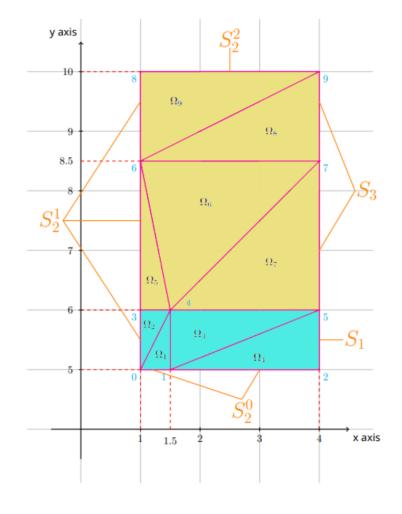
Краевые условия на границах:

$$\begin{bmatrix} R_{01} = II_0 \\ R_{12} = II_0 \\ R_{25} = I_0 \\ R_{57} = III_0 \\ R_{79} = III_0 -> \begin{cases} I_0 = 6y + 2 \\ II_0 = -6 \\ II_1 = -1 \\ II_2 = 6 \\ III_0 = 6y + 2.1 \end{cases}$$

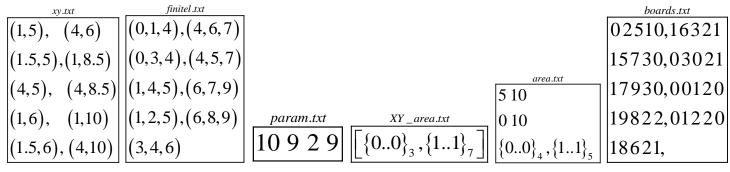
$$R_{86} = II_1$$

$$R_{63} = II_1$$

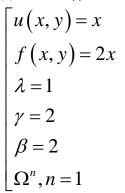
$$R_{30} = II_1$$

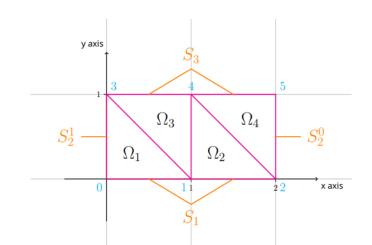


Содержимое файлов:



 x`	X	x` - x	X` - X
29	29,000000000000004	3,553E-015	į
29,5	29,499999999999	7,105E-015	
32	32,000000000000014	1,421E-014	
35	34,9999999999999	7,105E-015	
35,5	35,50000000000001	7,105E-015	
38	38	0,000E+000	2,161E-014
50	50	0,000E+000	
53	53	0,000E+000	
59	58,999999999999	7,105E-015	
62	61,9999999999999	7,105E-015	

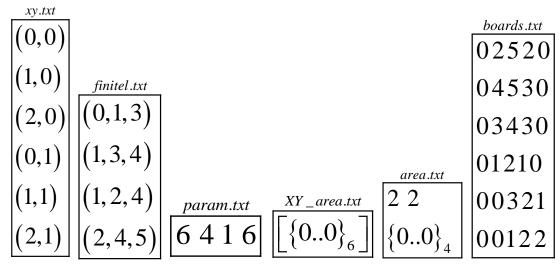




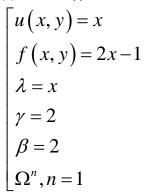
Краевые условия на границах:

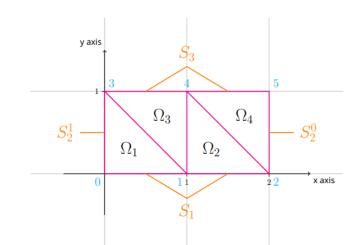
$$\begin{bmatrix} R_{01} = I_0 \\ R_{12} = I_0 \\ R_{25} = II_0 \\ R_{54} = III_0 \\ R_{43} = III_0 \\ R_{30} = II_1 \end{bmatrix} > \begin{cases} I_0 = x \\ II_0 = 1 \\ II_1 = -1 \\ III_0 = x \end{cases}$$

Содержимое файлов:



X`	X	x` - x	x^ - x
0	1,8312852319637973E-18		
1	1,00000000000000002 2,00000000000000004	2,220E-016 4,441E-016	
0 1	-4,324103195733203E-18 1	4,324E-018 0,000E+000	6,662E-016
2	1,99999999999999	4,441E-016	İ

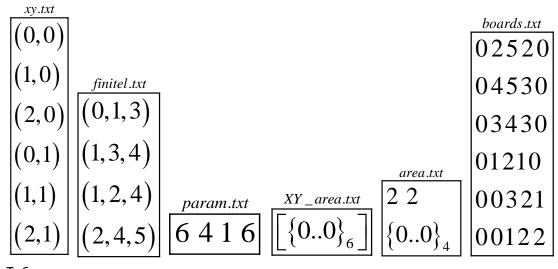




Краевые условия на границах:

$$\begin{bmatrix} R_{01} = I_0 \\ R_{12} = I_0 \\ R_{25} = II_0 \\ R_{54} = III_0 \\ R_{43} = III_0 \\ R_{30} = II_1 \end{bmatrix} \rightarrow \begin{cases} I_0 = x \\ II_0 = x \\ II_1 = -x \\ III_0 = x \\ III_0 = x \end{cases}$$

Содержимое файлов:



X`	X	x` - x	X` - X
0	0	0,000E+000	
1	1,00000000000000000	2,220E-016	
2	2,00000000000000004	4,441E-016	
0	3,469446951953614E-17	3,469E-017	5,885E-016
1	1,00000000000000000	2,220E-016	
2	1,99999999999998	2,220E-016	