Console

A=

10.	1.	0.	0.	0.	- 1.
1.	10.	1.	0.	0.	0.
2.	0.	20.	1.	0.	0.
0.	0.	1.	10.	- 1.	0.
0.	3.	0.	0.	30.	3.
0.	0.	0.	2.	- 2.	20.

B=

5.
10.
10.
0.
0.
5.

A11=

10.	1.
1.	10.

A12=

0.	0.
1.	0.

A13=

0.	- 1.
0.	0.

A21=

2.	0.
0.	0.

A22=

20.	1.
1.	10.

A23=

0.	0.

- 1. 0.

A31=

0. 3.
0. 0.

A32=

0. 0.
0. 2.

A33=

30. 3.
- 2. 20.

B1=

5.
10.

B2=

10.
0.

B3=

0.
5.

Inverse of Matrix A11=

0.1010101 - 0.0101010
- 0.0101010 0.1010101

Inverse of Matrix A22=

0.0502513 - 0.0050251
- 0.0050251 0.1005025

Inverse of Matrix A33=

0.0330033 - 0.0049505
0.0033003 0.0495050

X1=

0.4040404
0.9595960

X2=

0.4619055
- 0.0461905

X3=

- 0.1202193
0.2425971

X1=

0.4332109
0.9104884

X2=

0.4595779
- 0.0579797

X3=

- 0.1154739
0.2442506

X1=

0.4333544
0.9107068

X2=

0.4595396
- 0.0575014

X3=

- 0.1154908
0.2442011

X1=

0.4333490
0.9107111

X2=

0.4595403
- 0.0575031

X3=

- 0.1154912
0.2442012

X1=

0.4333490
0.9107111

X2=

0.4595403
- 0.0575031

X3=

- 0.1154912
0.2442012

Iteration	x1	x2	x3	x4	x5	x6
0.	0.	0.	0.	0.	0.	
1.	0.4040404	0.9595960	0.4619055	- 0.0461905	- 0.1202193	0.242597
2.	0.4332109	0.9104884	0.4595779	- 0.0579797	- 0.1154739	0.244250
3.	0.4333544	0.9107068	0.4595396	- 0.0575014	- 0.1154908	0.244201
4.	0.4333490	0.9107111	0.4595403	- 0.0575031	- 0.1154912	0.244201
5.	0.4333490	0.9107111	0.4595403	- 0.0575031	- 0.1154912	0.244201

After 4 iterations exact solution is:
x1=0.433349 x2=0.910711 x3=0.459540 x4=-0.057503 x5=-0.115491 x6
.244201