6_1	
sample matrix	(A)

8	1	6
3	5	7

4 9 2

a)

8 6 1 3 7 5 4 2 9

b)

8 6 1 0 3 7 5 0 4 2 9 0

c)

8 6 0 1 1 1 1 1 3 7 5 0 2 4 9 0

d)

8 1 0 1 1 1 3 5 0 4 9 0

6_2

Pfinal =

0	0.0323	0.0968	0.2258	0.4839	1.0000
0	0	0.0000	0	0.0000	0
0	0.0000	0	0.0000	0	0
0	0	0.0000	0	0.0000	0
0	0.0000	0	0.0000	0	0
1.0000	0.9677	0.9032	0.7742	0.5161	0

```
xfinal =
        1
        0
        0
        0
        0
        0
6_3
residual =
0
0
0
det(A) = -8
rcond(A) = 0.166666666666667
6_4
%when A=[1 5;1.5 7.501]
%and b= [17 25.503]
residual=
0
det(A) =9.9999999999176e-04
rcond(A) =8.887190369064820e-06
%when b=[17 25.501]
residual=
  1.0e-14 ×
  -0.355271367880050
%when b=[17 25.502]
residual =
0
0
%when b=[17 25.504]
residual =
0
0
6_6
%sample matrices a and b
a=[2 1 -1; -3 -1 2 -2 1 2];
b= [8 -11 -3];
χ=
2
3
-1
```

```
1.
B:
     7
                12
          -4
     9
                 2
          10
    13
           8
                11
     5
           4
                 1
C:
    -5
           9
                10
                       2
     6
                 8
                      11
          13
    15
           5
                       1
                 4
D:
     7
                12
          -4
     9
          10
                 2
2.
length of x = 3
absolute value of x = 2 4 7
length of y = 4
absolute value of y = 2 	 4 	 7 	 6
4.
(a)
                1 s t
                        2nd
materials:
                326000
                        346000 268000 364000
labor:
                188000
                        190000 168000 214000
```

3rd

186000 160000 204000

3rd

596000

4th

4th

782000

5. Min = 2.1213

1 s t

691000

(b)

(c)

labor:

materials:

transportation: 177000

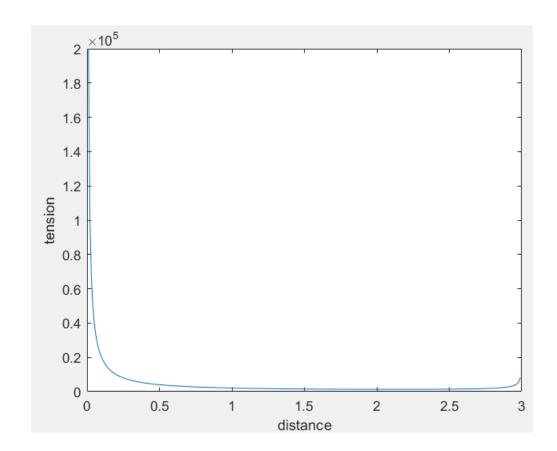
transportation: 727000

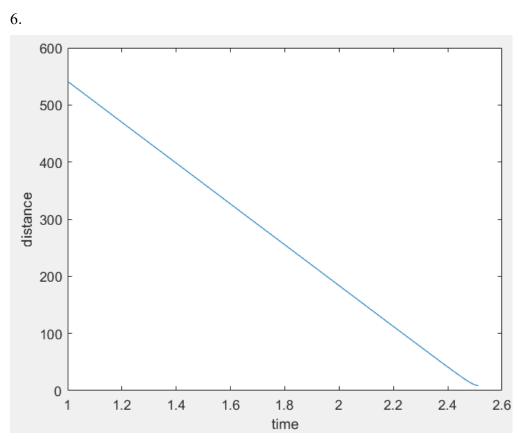
1304000

760000

2nd

722000





Dmin=2.5125