

1.

B =

7	-4	12
9	10	2
13	8	11
5	4	1

C =

-5	9	10	2
6	13	8	11
15	5	4	1

D =

7	-4	12
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
---	---	---	---

3.

a.

C =

1.0000	2.0000	7.0000	3.0000
4.0000	4.0000	9.0000	3.1416
2.0000	100.0000	7.0000	42.0000

b.

D =

1.0000	4.0000	2.0000
7.0000	9.0000	7.0000
3.0000	3.1416	42.0000

c.

D =

1.0000	1.0000	4.0000	2.0000
7.0000	1.0000	9.0000	7.0000
3.0000	1.0000	3.1416	42.0000

d.

E =

1	2
2	100
7	7
3	42

e.

x =

1.3863	1.3863	2.1972	1.1447
--------	--------	--------	--------

f.

sum_x =

6.1145

g.

ans =

3.8918	7.7836	194.5910
4.3944	8.7889	219.7225
3.8918	7.7836	194.5910

h.

ans =

1.9459	7.7836	3.8918
2.1972	8.7889	4.3944
1.9459	7.7836	3.8918

i.

max_value =

8.7889

min_value =

1.9459

sum_value =

42.6233

4.

(a)

	1st	2nd	3rd	4th
materials:	326000	346000	268000	364000
labor:	188000	190000	168000	214000
transportation:	177000	186000	160000	204000

(b)

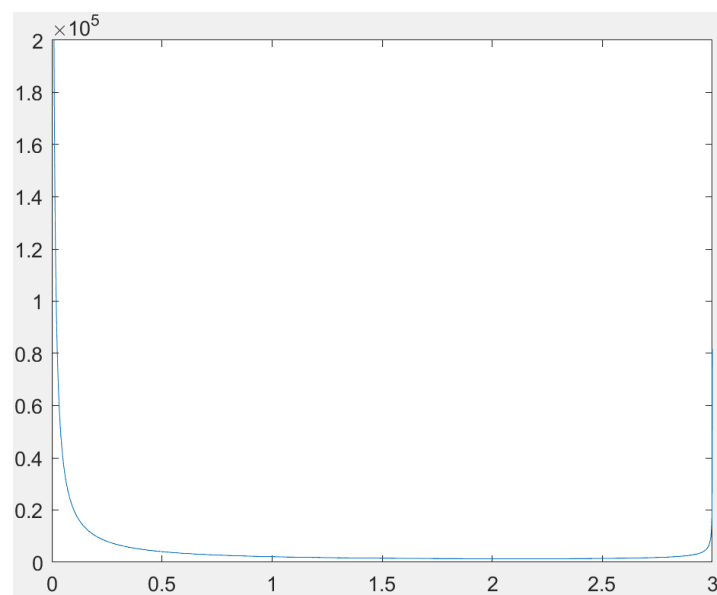
materials:	1304000
labor:	760000
transportation:	727000

(c)

1st	2nd	3rd	4th
691000	722000	596000	782000

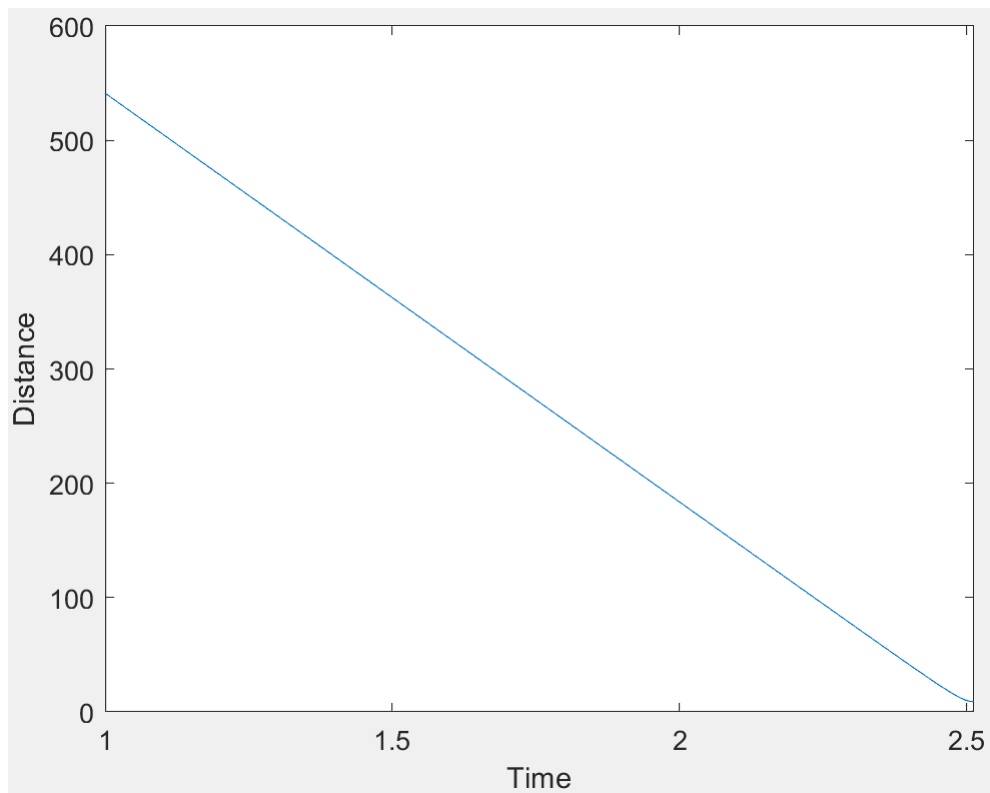
5.

Min = 2.1213



6.

Min = 2.5125



7.

A(B+C) :

-31	-13	-7
173	147	-25
117	57	112

AB+AC:

-31	-13	-7
173	147	-25
117	57	112

(AB)C:

209	347	-136
297	-111	308
1207	562	250

A(BC) :

209	347	-136
297	-111	308
1207	562	250

8.

Example Matrix A:

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

A =

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

A =

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

A =

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

A =

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

9.

PFinal =

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

XFinal =

```
1
0
0
0
0
0
0
```

10.

A =

2	1	-1
-3	-1	2
-2	1	2

B =

8
-11
-3

x =

2.0000
3.0000
-1.0000

