

Math 484. Midterm 3. November 20, 2003. 5 problems, 15 pts each.
 Return this page with solutions. Write your name here and on every page you use.
 Name

Solve transportation problems:

1.

1	2	3	1	2	3	1	2	3	0
0	3	2	0	1	2	1	2	1	30
2	1	0	1	2	1	2	1	1	12
1	1	1	2	2	2	2	2	1	8
2	3	4	5	1	2	3	14	16	

min = 47.

2.

1	2	3	1	2	3	1	2	3	10
0	3	2	0	1	2	1	2	1	20
2	1	0	1	2	1	2	1	1	12
1	1	1	2	2	2	2	2	1	8
2	3	4	5	1	19	0	0	16	

min = 60.

3.

1	2	3	1	2	3	1	2	3	10
0	3	2	0	1	2	1	2	1	20
2	1	0	1	2	1	2	1	1	12
1	1	1	2	2	2	2	2	1	8
0	0	0	14	1	2	3	14	16	

min = 43.

Solve the job assignment problems (minimize):

4.

1	2	3	1	2
3	1	2	1	0
0	0	3	2	1
0	0	2	1	1
1	3	3	1	0

$\min = 3.$

5.

1	2	0	1	2
0	1	2	1	0
0	1	0	2	1
2	2	0	1	1
0	0	3	1	2

$\min = 1.$