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DEPARTMENT: CHEMICAL ENGINEERING

MATRIC NUMBER: 16/ENG01/017.

(1i) clear

(1ii) clc

(2)

1. 1.commandwindow
2. 2.clear
3. clc
4. A=[2,3,7,9,4;3,7,9,12,5;4,8,5,6,9;5,9,2,4,5;6,2,3,7,8]
5. det(A)
6. transpose(A)
7. inv(A)
8. A=(sym[2,3,9,7,4;3,7,9,12,5;4,8,5,6,9;5,9,2,4,5;6,2,3,7,8];inv(A)

command window

A =

2	3	7	9	4
3	7	9	12	5
4	8	5	6	9
5	9	2	4	5
6	2	3	7	8

ans =

-765.0000

ans =

2	3	4	5	6
3	7	8	9	2
7	9	5	2	3
9	12	6	4	7
4	5	9	5	8

ans =

1.8915	-1.4026	-0.3124	0.7843	-0.2078
-0.4379	0.3268	0.0523	-0.0392	-0.0196
2.5725	-1.8392	-0.0863	0.7647	-0.5176
-1.8876	1.4654	0.0105	-0.6078	0.3961

-0.6222 0.3778 0.2444 -0.3333 0.1333

ans =

1447/765	-1073/765	-239/765	40/51	-53/255
-67/153	50/153	8/153	-2/51	-1/51
656/255	-469/255	-22/255	13/17	-44/85
-1444/765	1121/765	8/765	-31/51	101/255
-28/45	17/45	11/45	-1/3	2/15

(3)

1. commandwindow
2. clear
3. clc
4. B=[0,10,4,-2;-3,-17,1,2;1,1,1,0;8,-34,16,-10]
5. C=[-4;2;6;4]
6. D= inv(B)
7. E= B*C

command window

B =

0	10	4	-2
-3	-17	1	2
1	1	1	0
8	-34	16	-10

C =

-4
2
6
4

D =

-0.1786	-0.1020	0.5714	0.0153
0.0357	-0.0153	0.0357	-0.0102
0.1429	0.1173	0.3929	-0.0051
-0.0357	0.1582	0.9643	-0.0612

E =

36
-8
4
-44

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