

Obioma Eromosele Prosper

Chemical Engineering

16\ENG01\014

Clear(command) for workplace

Clc(command) for commandwindow
commandwindow

clear

clc

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16/ENG01/014

commandwindow

clear

clc

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];

obi=det(A)

king=transpose(A)

pro=inv(A)

sym(p

obi =

-765.0000

king =

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

pro =

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]

>> pro)

A=[0,10,4,-2;-3,-17,1,2;1,1,1,0;8,-34,16,-10]

k=inv(A)

B=[4;2;6;4]

X=A \

0 10 4 -2

-3 -17 1 2

1 1 1 0

8 -34 16 -10

k =

-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

B =

4

2

6

4

X =

2.5714

0.2857

3.1429

5.7143

>> k*B