

OKODUWA ODION JAMES

PETROLEUM ENGINEERING

16\ENG07\020

1)

- Clear
- Clc

2)

```
1.commandwindow
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 7 9 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.A=[0 10 4 -2;-3 -17 1 2;1 1 1 0;8 -34 16 -10]

5.B=[4;2;6;4]

6.X=A^1*B

Commandwindow

A =

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

B =

```
4
2
6
4
```

X =

```
36
-32
12
```

20

>>