

ADIOTOMRE WILLIAM

PETROLEUM ENGINEERING

16/ENG 07/003

1)

- Commandwindow
- 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

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