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Course: ENG 281-Engineering Mathematics.

1. clc: to clear all in the command window.

clear: to clear all in the workspace.

2.

```
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]
i=det(A)
ii=transpose(A)
iii=A^-1
kiro=rats(iii)
```

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
```

i =

-765.0000

ii =

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

iii =

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

kiro =

5×70 char array

'	401/212	-108/77	-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	'
'	-319/169	148/101	3/287	-31/51	101/255	'
'	-28/45	17/45	11/45	-1/3	2/15	'

3.

```
commandwindow  
clear  
clc  
A=[0,10,4,-2;-3,-17,1,2;1,1,1,0;8,-34,16,-10]  
b=[-4;2;6;4]  
x=A^-1*b
```

A =

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

b =

-4
2
6
4

x =

4.0000
-0.0000
2.0000
6.0000