

NAME:IME IME-ESSIEN
MATRIC NO:16/ENG01/011
DEPT:CHEMICAL ENGINEERING

```
1
commandwindow
clear
clc
```

```
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];
essien = det(A)
essien = -765.0000
```

```
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];
kante = transpose(A)
kante =
```

```
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
```

3.

```
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];
tecky= inv(A)
tecky=
```

```
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

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];

chichi = rats(tecky)

chichi =

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 '

commandwindow

clear

clc

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

D = [-4; 2; 6; 4];

lincoln = inv(C)

X = lincoln * D

lincoln =

-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

X =

4.0000

-0.0000

2.0000

6.0000

>>