NAME:YERWANG P.SHAMBO
MATRIC NO:16/ENG01/020
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];
mukky = det(A)
```

mukky = -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];
drake = transpose(A)
```

drake =

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];
sam = inv(A)
```

sam=

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];
tare = rats(sam)
```

tare =

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];
abraham = inv(C)
X = abraham * D
```

abraham =

-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

>>