

1. Clear: Clears variables in work space
Clc: Clears variables in command window

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]

Determinant = det(A)

Transpose = transpose(A)

Inverse = inv(A)

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

Determinant = -765.0000

Transpose = 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

Inverse = 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

```
[ 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. 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 = inv(A)*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
```