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DEPT: MECHATRONICS ENGINEERING  
MATRIC:16/ENG05/011  
COURSE:ENG 281

ASSIGNMENT

(1)

```
commandwindow  
clear  
clc
```

(2)

```
coomandwindow  
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]  
G=det(A)  
x=transpose(A)  
O=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
```

G =

-765.0000

x =

```
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
```

O =

```
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
```

( 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
```

10.3158

0.9474

-5.2632

-3.7895