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**DEPT: ELECTRICAL ELECTRONICS ENGINEERING**

**MATRIC NUMBER: 16/ENG04/052**

**Q1:**

```
commandwindow  
clear  
clc
```

**Q2:**

```
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];  
S = det(A)  
E = A'  
K = inv(A)  
format rat
```

MATLAB R2017a

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Workspace Editor - ENG04052.m Command Window

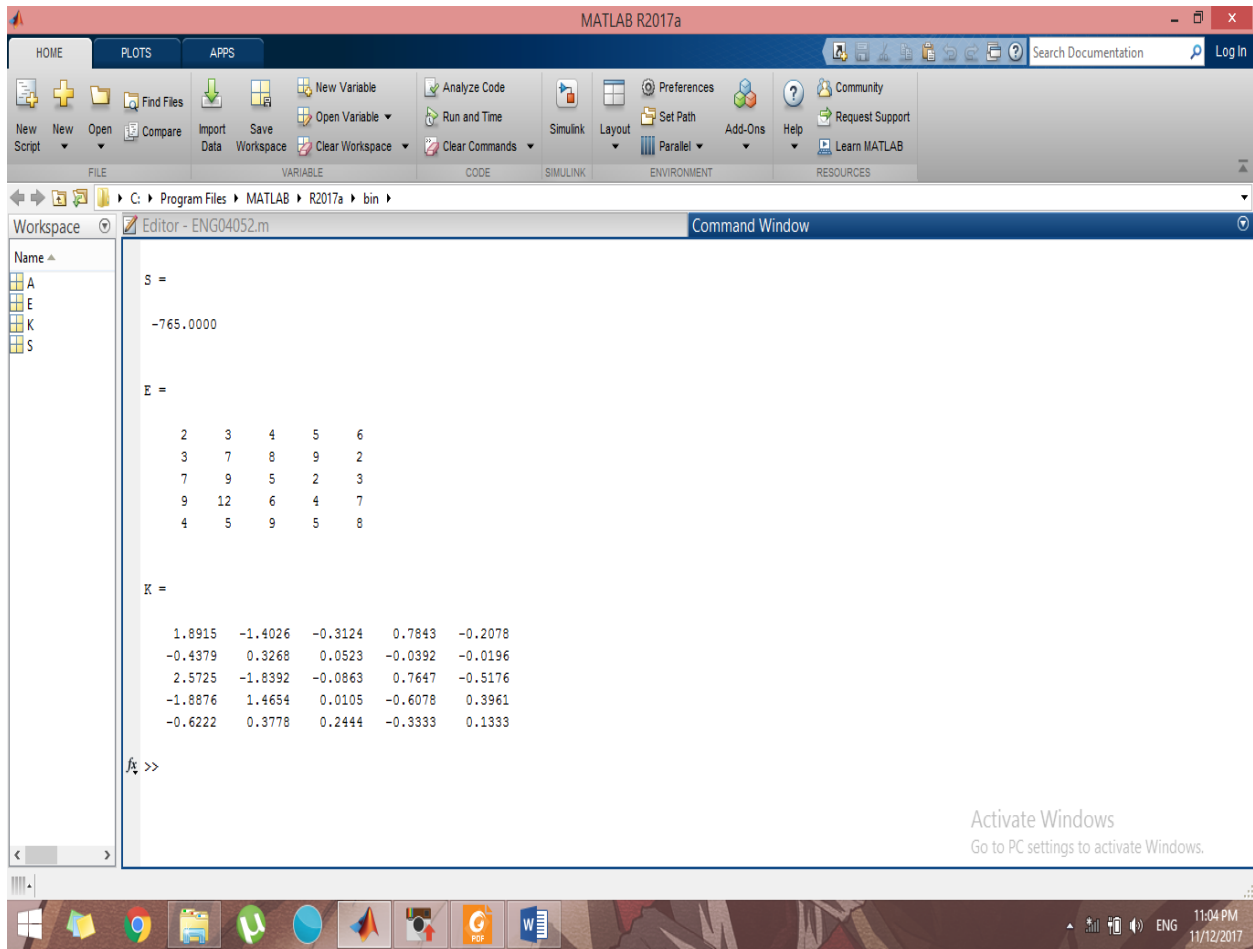
Name ^

- A
- E
- K
- S

```
S =  
  
-765  
  
E =  
  
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  
  
K =  
  
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 19/17 -44/85  
-1444/765 1121/765 8/765 -31/51 101/255  
-28/45 17/45 11/45 -1/3 2/15  
  
fx >>
```

Activate Windows  
Go to PC settings to activate Windows.

11:05 PM  
11/12/2017



### Q3:

```

commandwindow
clear
clc
A = [0,10,4,-2;
     -3,-17,1,2;
     1,1,1,0;
     8,-34,16,-10];
E = [-4;2;6;4];
K = inv(A);
S = K * E

```

MATLAB R2017a

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FILE VARIABLE CODE SIMULINK ENVIRONMENT RESOURCES

C:\Program Files\MATLAB\R2017a\bin

Workspace Editor - ENG040522.m Command Window

Name

- A
- E
- K
- S

```
S =  
  
    4  
-1/10293942005418276  
    2  
    6  
  
fx >>
```

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Windows Taskbar: File Explorer, Chrome, MATLAB, Word, PowerPoint, Word, ENG 11:06 PM 11/12/2017