

Question 1

```
commandwindow  
clear  
clc
```

Question 2

```
commandwindow  
clear  
clc  
format BANK  
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]  
B=det(A)  
C=A'  
D=A^-1  
format rat  
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]  
B=det(A)  
C=A'  
D=A^-1
```

Answer 2

L =

Columns 1 through 3

0	10	4
-3	-17	1
1	1	1
8	-34	16

Column 4

-2

0

0

-10

N =

-4

0

6

4

O =

Columns 1 through 3

-45/268 -10/67 19/67

5/134 -3/134 -1/134

35/268 23/134 97/134

-7/134 31/134 189/134

Column 4

9/268

-1/134

-7/268

-6/67

M =

168/67

-15/67

249/67

557/67

>>

Question 3

```
commandwindow
clear
clc
L=[0 10 4 -2;-3 -17 1 0;1 1 1 0;8 -34 16 -10]
N=[-4;0;6;4]
O=L^-1
M=O*N
```

Answer 3

L =

Columns 1 through 3

0 10 4

-3	-17	1
1	1	1
8	-34	16

Column 4

-2

0

0

-10

N =

-4

0

6

4

O =

Columns 1 through 3

$-\frac{45}{268}$ $-\frac{10}{67}$ $\frac{19}{67}$

$\frac{5}{134}$ $-\frac{3}{134}$ $-\frac{1}{134}$

$\frac{35}{268}$ $\frac{23}{134}$ $\frac{97}{134}$

$-\frac{7}{134}$ $\frac{31}{134}$ $\frac{189}{134}$

Column 4

$9/268$

$-1/134$

$-7/268$

$-6/67$

M =

$168/67$

$-15/67$

$249/67$

$557/67$

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