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## ASSIGNMENT 4

### QUESTION 1

```
commandwindow  
clear  
clc
```

### QUESTION 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];  
Wale = det(A);
```

**Wale =**

**-765.0000**

```
ore = transpose(A);  
ore =
```

**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**

```
sambobs = inv(A);  
sambobs =
```

```
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
```

```
banji = rats(sambobs);
banji =
```

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 '
```

### QUESTION 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];
tosin = inv(A);
```

tosin =

```
-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 = tosin \* b;

x =

4.0000

-0.0000

2.0000

6.0000