```
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]
D = det(A)
T = transpose(A)
I = inv(A)
syms w x y z
eqn1 = 10*x+4*y-2*z == -4;
eqn2 = -3*w-17*x+y+2*z == 2;
eqn3 = w+x+y == 6;
eqn4 = 8*w-34*x+16*y-10*z == 4;
[G,B] = equationsToMatrix([eqn1, eqn2, eqn3, eqn4], [w, x, y, z])
ANS = linsolve(G,B)
```

SOLUTIONS

```
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


D =

  -765.0000


T =

     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


I =

    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


G =

[    0,    10,    4,    -2]
```

```
[ -3, -17,    1,      2]
[    1,      1,    1,      0]
[    8, -34, 16, -10]


B =

  -4
    2
    6
    4


ANS =

  4
  0
  2
  6
```