

INPUTS IN THE EDITOR

QUESTION 1

```
commandwindow
clear
clc
```

QUESTION 2

```
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]
F = det(A)
G = transpose(A)
K = inv(A)
B = rats(K)
```

QUESTION 3

```
A = [0 10 4 -2; -3 -17 1 2; 1 1 1 0; 8 -34 16 -10]
B = inv(A)
J = [-4; 2; 6; 4]
Z = B*J
```

OUTPUT IN THE COMMAND WINDOW

QUESTION 2

```
% -----
%   Generated by MATLAB on 13-Nov-2017 18:34:53
%   MATLAB version: 9.2.0.538062 (R2017a)
% -----
```

```
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];

F = -765.000000000000193;
G = ...
    [7 3 4 5 6;
     8 7 8 9 2;
     7 9 5 2 3;
     9 12 6 4 7;
     9 5 9 5 8];
K = ...
```

```

[1.8915032679738513 -1.4026143790849637 -0.31241830065359477
0.78431372549019474 ...
-0.20784313725490092;
-0.43790849673202487 0.32679738562091409 0.052287581699346351
0.039215686274509366 ...
-0.0196078431372552;
2.5725490196078371 -1.8392156862745055 -0.086274509803921637
0.76470588235293957 ...
-0.51764705882352813;
-1.8875816993464005 1.4653594771241796 0.010457516339869247
0.60784313725490047 ...
0.39607843137254795;
-0.6222222222222079 0.37777777777777671 0.24444444444444444
0.3333333333333287 ...
0.1333333333333297];
B = ...
['      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

```

% -----
% Generated by MATLAB on 13-Nov-2017 03:47:08
% MATLAB version: 9.2.0.538062 (R2017a)
% -----

```

```

A = ...
    [0 10 4 -2;
     -3 -17 1 2;
     [1 1 1 0;
      8 -34 16 -10];
B = ...
[-0.17857142857142858 -0.10204081632653059 0.57142857142857151
0.015306122448979595 ...
;
0.035714285714285712 -0.015306122448979597 0.0357142857142857
0.010204081632653062 ...

```

```

    ;
    0.14285714285714288 0.1173469387755102 0.39285714285714285
0.0051020408163265293 ... ;
    -0.0357142857142857 0.15816326530612243 0.9642857142857143
0.06122448979591838 ...
];

J = [-4; 2; 6; 4];

Z = [4.00000000000000009; -9.71445146547012E-17; 1.999999999999998; 6];

```