

```

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]
cow = det(A)
dog = A'
B = inv(A)
format rat
C = inv(A)

```

```

X = [0 10 4 -2; -3 -17 1 2; 1 1 1 0; 8 -34 16 -10]
P = inv(X)
Z = [-4; 2; 6; 4]
T = P*Z

```

OUTPUTS FROM THE COMMAND WINDOW

```

% -----
%   Generated by MATLAB on 13-Nov-2017 19:01:47
%   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];

```

```

B = ...
    [1.8915032679738517 -1.4026143790849641 -0.3124183006535946
     0.78431372549019451 ...
     -0.20784313725490089;
     -0.43790849673202503 0.3267973856209142 0.052287581699346358 -
     0.039215686274509415 ...
     -0.019607843137255165;
     2.5725490196078376 -1.8392156862745059 -0.086274509803921373
     0.76470588235293946 ...
     -0.517647058823528;
     -1.8875816993464012 1.46535947712418 0.010457516339869244 -
     0.60784313725490047 ...
     0.39607843137254795;
     -0.6222222222222112 0.3777777777777777 0.24444444444444441 -
     0.33333333333333304 ...
     0.13333333333333314];

```

```

K = ...
    ['    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 '
...
    '    ' ] ;

```

```

P = ...
[-0.17857142857142855 -0.1020408163265306 0.5714285714285714
0.015306122448979609 ...
;
0.035714285714285712 -0.015306122448979597 0.0357142857142857 -
0.010204081632653062 ...
;
0.14285714285714288 0.1173469387755102 0.39285714285714285 -
0.0051020408163265293 ...
;
-0.035714285714285691 0.15816326530612243 0.9642857142857143 -
0.06122448979591838 ...
];

```

```

T = [4; -9.71445146547012E-17; 1.9999999999999998; 5.9999999999999991];

```

```

X = ...
[0 10 4 -2;
-3 -17 1 2;
1 1 1 0;
8 -34 16 -10];

```

```

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

```

```

cow = -765.000000000000171;

```

```

dog = ...
[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];

```