```matlab
A = [4, 0, -1, 0, 0, 0, 0, 0;
     0, 8, -5, -1, 0, 0, 0, 0;
     -5, -15, 26, -6, 0, 0, 0, 0;
     0, -1, -2, 5, 0, 0, 0, 0;
     0, 0, 0, 0, 5, 0, -1, 0;
     0, 0, 0, 0, 0, 4, -2, -1;
     0, 0, 0, 0, -5, -10, 17, -2;
     0, 0, 0, 0, 0, -5, -2, 27;];
B = [12; -20; 30; 0; -8; 8; 120; 0];
x = A\B;
for index = 1:8
    disp(x(index));
end
```

*3.0777*

*-2.3489*

*0.3109*

*-0.3454*

*1.0190*

*9.2167*

*13.0951*

*2.6768*


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