MATLAB Command Window

```
1.000000 6.312500 2.622314 3.133303 2.957051 3.003721 2.996328 3.000050 2.999745 3.000002 2.999985 1.000000 3.519531 3.958527 4.010265 4.007484 4.002925 4.000926 4.000259 4.000065 4.00015 4.000003 1.000000 -6.650146 -4.600424 -5.096686 -4.973490 -5.005714 -4.998282 -5.000349 -4.999892 -5.000022 -4.999993
                                                                                                                                          4]
                                                                                                                                  Enter the entries of the coefficient matrix row-wise: [4 3 0; 3 4 -1; 0 -1
                                                                                                                                                                                                                                                                             Enter the RHS given data of the system (as column vector) : [24; 30; -24]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10 number of SOR iterations are given as (columnwise):
                                                                                                                                                                                                                                                                                                                                                                                                                   Enter the initial guess (as column vector): [1; 1;1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Enter the maximum number of iteration: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Enter a value of the SOR Parameter: 1.25
Enter the numbr of equations: 3
```

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