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%=====
%   Name:                hw1_1.m
%
%   Author:              Kairi Kozuma
%
%=====
A = [-7,6,-2,-9;-14,-5,-4,0;-12,14,8,-2;10,-14,9,4];
[UU, SS, VV] = svd(A);
fprintf('UU\n');
disp(UU);
fprintf('SS\n');
disp(SS);
fprintf('VV\n');
disp(VV);

fprintf('Singular Values of SS\n');
disp([SS(1,1),SS(2,2),SS(3,3),SS(4,4)]);
fprintf('Last column of VV\n');
disp([VV(1,4),VV(2,4),VV(3,4),VV(4,4)]');

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UU

-0.4004	-0.0663	0.1975	0.8923
-0.2428	-0.8664	-0.4293	-0.0783
-0.6129	0.4856	-0.6148	-0.1029
0.6365	0.0955	-0.6315	0.4325

SS

28.4064	0	0	0
0	14.7480	0	0
0	0	11.8593	0
0	0	0	6.5524

VV

0.7013	0.5235	0.4799	0.0623
-0.6576	0.6371	0.3006	-0.2670
0.0914	0.5657	-0.7824	0.2438
0.2596	0.0005	-0.2592	-0.9303

Singular Values of SS

28.4064	14.7480	11.8593	6.5524
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Last column of VV

0.0623
-0.2670
0.2438
-0.9303

