

Input matrix:

5.000	3.000	1.000
2.000	4.000	9.000
3.000	7.000	1.000

Singular Value Decomposition:**U:**

-0.384	0.448	-0.807
-0.755	-0.655	-0.004
-0.531	0.608	0.590

S:

12.124	0.000	0.000
0.000	6.317	0.000
0.000	0.000	2.846

 V^T

-0.414	-0.651	-0.636
0.436	0.472	-0.767
-0.799	0.595	-0.088

Input matrix:

1.927	3.031	2.961
3.789	5.959	5.822
2.665	4.191	4.095

Singular Value Decomposition:**U:**

-0.384	0.755	0.532
-0.755	0.075	-0.651
-0.531	-0.652	0.541

S:

12.119	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000

 V^T

-0.414	-0.651	-0.636
-0.344	0.759	-0.553
-0.843	0.010	0.538