5

```
clc; clear;
A = [4.041 7.046 3.014;
     10.045 17.032 7.027;
     16.006 27.005 11.048];

[U V D] = svd(A);
V
```

V = 3×3
```
   40.2854        0        0
        0   0.1859        0
        0        0   0.0051
```

```
A_hat = U(:, 1:2) * V(1:2, 1:2) * D(:, 1:2)'
```

A_hat = 3×3
```
    4.0420    7.0450    3.0150
   10.0426   17.0345    7.0245
   16.0073   27.0037   11.0493
```

```
A_delta = A - A_hat
```

A_delta = 3×3
```
   -0.0010    0.0010   -0.0010
    0.0024   -0.0025    0.0025
   -0.0013    0.0013   -0.0013
```