

```
A=[24 84; 9 31; 3 67];  
[U,S,V]=svd(A);  
A
```

```
A = 3×2  
    24    84  
     9    31  
     3    67
```

U

```
U = 3×3  
    0.7635    0.5414   -0.3520  
    0.2820    0.2108    0.9360  
    0.5809   -0.8139    0.0083
```

S

```
S = 3×2  
   114.0643     0  
     0    12.7015  
     0     0
```

V

```
V = 2×2  
    0.1982    0.9802  
    0.9802   -0.1982
```

R=U*S*V'

```
R = 3×2  
   24.0000   84.0000  
    9.0000   31.0000  
    3.0000   67.0000
```