

Console

$A^T A =$

```
6. 6. 7.  
6. 11. 8.  
7. 8. 18.
```

Upper Triangular Matrix (R)=

```
2.4494897 2.4494897 2.857738  
0. 2.236068 0.4472136  
0. 0. 3.1037612
```

Inverse of R

```
0.4082483 - 0.4472136 - 0.3114501  
0. 0.4472136 - 0.0644379  
0. 0. 0.3221897
```

Orthogonal Matrix Q=

```
0.8164966 - 0.4472136 - 0.3651484  
0.4082483 0.8944272 - 0.1825742  
0.4082483 - 1.110D-16 0.9128709
```