





>> A=[1 1 1; 1 -1 0; 0 0 1];

```
>> [V,D]=eig(A)
V =
 0.9239 -0.3827 -0.8165
 0.3827 0.9239 -0.4082
  0 0 0.4082
D =
 1.4142 0 0
  0 -1.4142 0
  0 0 1.0000
>> B=[0 2 -1; 0 2 0; -2 2 1];
>> [V,D]=eig(B)
V =
-0.7071 0.4472 0.4851
  0 0 0.7276
-0.7071 -0.8944 0.4851
D =
 -1 0 0
 0 2 0
 0 0 2
>> C=[1 2; -1 3];
>> [V,D]=eig(C)
V =
D =
 0.0000 + 0.0000i 2.0000 - 1.0000i
```