
```
A = [3 2 -2; -3 -1 3; 1 2 0];
```

```
b=[0; 0; 0];
```

```
X = eig(A);
```

```
[V, D] = eig(A);
```

```
A
```

```
X
```

```
D
```

```
V
```

```
A =
```

```
     3     2    -2
    -3    -1     3
     1     2     0
```

```
X =
```

```
 -1.0000
  1.0000
  2.0000
```

```
D =
```

```
 -1.0000     0     0
         0  1.0000     0
         0     0  2.0000
```

```
V =
```

```
 -0.5774    0.7071    0.0000
  0.5774   -0.0000    0.7071
 -0.5774    0.7071    0.7071
```

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