

Console

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

```
- 1.  0.  0.  
  1. -1.  3.  
  0.  1. -3.  
  1.  0.  0.  
  0. 0.5  0.  
  0.  0.  1.
```

```
- 1.  0.  0.  
  1. -1.  0.  
  0.  1.  0.  
  1.  0.  0.  
  0. 0.5  1.5  
  0.  0.  1.
```

```
- 1.  0.  0.  
  2. -5.  0.  
  0.  1.  0.  
  1.  0.  0.  
  0. 0.5  1.5  
  0.  0.  1.
```

```
- 0.5  0.  0.  
  1. -5.  0.  
  0.  1.  0.  
  0.5  0.  0.  
  0.  0.5  1.5  
  0.  0.  1.
```

```
- 0.5 -2.5  0.  
  1.  0.  0.  
  0.  1.  0.  
  0.5  2.5  0.  
  0.  0.5  1.5  
  0.  0.  1.
```

```
- 6. -5.  0.  
  1.  0.  0.  
  0.  1.  0.  
  0.5  2.5  0.
```

0. 0.5 1.5
0. 0. 1.

T=

0.5 2.5 0.
0. 0.5 1.5
0. 0. 1.

Charateristic polynomial:

$$5x^2 + 6x + x$$

Eigenvalues:

- 5. - 1. 0

y=

25. 1. 0
- 5. - 1. 0
1. 1. 1.

Eigenvectors:

0.0	-2.0	0.0
1.5	1.0	-1.0
1.0	1.0	1.0