

Source:

1 | **eigenvalues**

eigenvalue: multiplied by a scalar? a subspace that, when put through a linear map, only gets scaled.

$$Tv = \lambda v$$

where v is the eigenvector and λ is the eigenvalue. The equation is often rewritten as:

$$Tv - \lambda v = 0Tv - \lambda Iv = 0(T - \lambda I)v = 0$$

now this can be factored and roots can be found

2 | **depends on**

2.1 | **finding roots is helpful**