

**Source:**

## 1 | **Algebraic and Geometric Multiplicities**

I missed the last ten minutes of class and had to look up what the algebraic and geometric multiplicities are. I used this source.

Also it says something about

It is a fact that summing up the algebraic multiplicities of all the eigenvalues of an  $n \times n$  matrix  $A$  gives exactly  $n$ .

Which reminds me of the fundamental theorem of algebra...

$$1.1 \mid \begin{pmatrix} 4 & -12 \\ 2 & 0 \end{pmatrix}$$