trouve: A e A tein os mesmos valores próprios.

Jum.: det (A-XI) = det (A-XI) = det (AT-XI)

proprios de A sod es elementes de diagonal ou triangular, os valores proprios de A sod es elementes de diagonal.

- i qual ao determinante de metriz
- * A some dos m valores próprios de una metrit de orden y s'ignal à some dos m elementos diagonais.

dum: Considermos à combinação linear mule de 2, + de 2 = Q (*)
anemas mostrar que de = 2.

Rultiplicande ambos os membres de (*) par A:

De (x) tem-se, tambien, x, 21 = - 2 22, dande

$$\lambda_1(-\alpha_2 \, \chi_2) + \alpha_2 \, \lambda_2 \, \chi_2 = 0 \Rightarrow (\lambda_2 - \lambda_1) \, \alpha_2 \, \chi_2 = 0 \Rightarrow \alpha_2 = 0$$
 $\lambda_1(-\alpha_2 \, \chi_2) + \alpha_2 \, \lambda_2 \, \chi_2 = 0 \Rightarrow \alpha_1 = 0$
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Armin, por (*), tem-se x, 2, = 0 => x, = 0