

10.1. Autovalores y autovectores

$$Ax = \lambda x$$

$$\begin{pmatrix} A \end{pmatrix} \begin{pmatrix} x \end{pmatrix} = \lambda \cdot \begin{pmatrix} \lambda_1 \\ \lambda_2 \\ \lambda_3 \\ \vdots \end{pmatrix}$$

$n \times n$ $n \times 1$ $n \times 1$

$$\begin{pmatrix} A \end{pmatrix} \begin{pmatrix} x \end{pmatrix} - \begin{pmatrix} \lambda x \end{pmatrix} = \begin{pmatrix} 0 \end{pmatrix}$$

$$(A - \lambda I) \begin{pmatrix} x \end{pmatrix} = \vec{0}$$

