test

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1 Test1

This should be written in latex, and will not be put in the html version.

1.1 test2

We shall first prove the following.

Lemma (Eigenspace orthogonality)

For any symmetric matrix M, and any two eigenvalues $\lambda \neq \lambda'$, the eigenvectors for λ are orthogonal to the eigenvectors for λ'.

It can then be used to prove the following.

Theorem (Diagonalisation)

Any symmetric matrix can be diagonalised in an orthogonal basis.

Theorem 1.1. *Esta es una prueba*

$$\left(\int_0 \mathbb{R}\right)$$

Proof. Hola □

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