1 | diagonal matrix def

A *diagonal matrix* is a square matrix that is zero everywhere except possibly along the diagonal.

1.1 | results

1.1.1 | every diagonal matrix is upper triangular

2 | diagonalizable def

An operator $T \in \mathcal{L}(V)$ is called *diagonalizable* if the operator has a diagonal matrix with respect to some basis of V.

2.1 | results

2.1.1 | Axler5.41 conditions equivalent to diagonalizability