dimension of a vector space

rank

nullity

inner product

length or norm of a vector

distance between two vectors

orthogonal vectors

Pythagorean Theorem (in terms of vectors)

orthogonal set

orthogonal basis

orthonormal set

orthonormal basis

eigenvector

eigenvalue

characteristic equation

multiplicity

eigenspace

similar matrices

diagonalizable

Diagonalization Theorem

Difference Equations

Discrete Dynamical Systems