

LINEAR ALGEBRA MADE EASY - FUNCTIONALITY

for the TiNspire CAS – www.TiNspireApps.com

Matrix1

- READ about Matrices
- All in One Matrix Analyzer
- $A + B$
- $A * B$
- $k*A$
- Symmetry(A)
- Minor

Matrix2

- Row Echolon
- Reverse Row Echolon
- Gauss Elimination
- Find EigenValues
- Find EigenVectors
- Find Orthonormal Basis
- Gram Schmidt Procedure
- Find Inverse via RREF
- Find Inverse via Formula
- Find Determinant via Diagonal
- Find Determinant via formula
- Find Trace

Applications

- LU Decomposition & solve $A*X=B$
- Solve $A*X=B$
- Solve $A*X=B$ with 1 Parameter
- Cramer Rule to solve $A*X=B$
- Simpson Algorithm
- Coding: En/Decode Messages
- Rotate a point via Matrices
- Diagonalization
- LU Factorization
- QR Factorization
- $v(A)$ - Square Root
- Read Magic Squares

Linear Algebra

- Find Kernel
- Find Range
- Find Orthonormal Basis
- Find Nullity
- Find NullSpace Basis

Find RowSpace Basis
Find ColumnSpace Basis

Transformations

Read about Linear Transformations
Read about VectorSpace
Read about SubSpace
Read about NullSpace
Read about Column SubSpace
Read about Kernel
Read about Linear Combination
Read about Spanning Set
Read about Linear In/Dependence
Read about Basis & Dimensions

Vectors

Read about Vectors
All in one Vector Explorer
Find Norm
All in one 2-Vectors Explorer
Test of Orthogonality
Find Angle between 2 Vectors
Test of In/Dependence
Projection of A to B
Distance A to B
Find Cross Product
Find Orthogonal 3D Vector
Differentiation & Integration

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