

MATRIX & VECTOR MADE EASY - FUNCTIONALITY

for the TiNspire CAS – www.TiNspireApps.com

Matrix1

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

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

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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