

# COLLEGE ALGEBRA MADE EASY - FUNCTIONALITY

for the TiNspire CAS – [www.TiNspireApps.com](http://www.TiNspireApps.com)

## Algebra

- Solve any Equation or Inequality
- Solve 2x2 system - Step by Step
- READ: PEMDAS - Order of Operation
- Simplify & Evaluate
- Factor
- Powers
- Expand/Distribute
- Find GCD & LCM
- Find Partial Fractions
- Find Common Denominator
- Find Proper Fractions
- Solve Proportion (Ratio) Problems
- Absolute and Percent Change

## Functions

- READ: Definition of Function
- All-in-one-Function Explorer
- Evaluate Function
- Intersection of 2 Functions
- Find  $f+g$
- Composition of 2 Functions  $f(g(x))$
- Find  $[f(x+h)-f(x)]/h$
- Find Inverse function
- READ: Interval Notation

## Polynomials

- All-in-one-Polynomial Explorer
- Find Degree

## Points and Lines

- Find Slope
- Find  $y=mx+b$
- READ:  $y=k*x$
- READ: Linear Functions
- Find Point Slope &  $y=mx+b$  given Pt & Slope
- Check if 2 Lines are Parallel or Perpendicular
- Find Parallel and Perpendicular Lines

READ: Absolute Value Function  $|x|$

### Quadratic Equations and Complex Numbers

Do the Quadratic Equation

Complete the Square

Complete the Square to find Zeros

Complete the Square to find Vertex

One Complex Number : All-in-one-Explorer

Two Complex Numbers : All-in-one-Explorer

### Exponents and Logarithms

READ: Exponents & Rules

Solve any Equation

Solve using the Rule 72

Solve Money/Exponential Growth Problems

READ: Logarithms & Rules

Evaluate Logarithms

Logarithm Solver

Change of Base

### Sequences & Series

Explicit Sequence & Partial Sum

Recursive Sequence & Partial Sum

Sequence Formula Finder

Geometric Sequence & Series

Arithmetic Sequence

Sigma S-Notation

### Matrices

All in one Matrix A Explorer

Two Matrices:  $A+B$

Find the Inverse of A

Find the Determinant of A

Row Echolon(A)

Reverse Row Echolon(A) - STEPS

Solve System of Equations  $A*X=B$

Cramer Rule to solve  $A*X=B$

### Trigonometry

READ: Intro

Solve any  $90^\circ$  Triangle

READ: 3 Laws

Solve any triangle

SSS-Case

SAS-Case

SSA-Case

SAA-Case

Evaluate  $\sin(x)$

Circles

READ: Unit Circle: Angles & Coordinates

READ: Circle Properties & Formulas

Find Sector

Arc Length Solver

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