

DIFFERENTIAL EQUATIONS MADE EASY - FUNCTIONALITY

for the TiNspire CAS – www.TiNspireApps.com

1. Order DEQ

Solve any 1. order D.E.

Solve any 1. order D.E. (dy/dx)

Separation of Variables

Solution Checker

Exact Differential Equation

Non-Exact Differential Equation

$M(x,y)dx+N(x,y)dy=0$

$N(x,y)y'+M(x,y)=0$

Linear in x Differential Equation

Linear in y Differential Equation

RL Circuits

Logistic Differential Equation

Bernoulli Equation

Euler Method

Runge Kutta4

Midpoint method (order2)

Runge Kutta23

2. Order DEQ

Solve any 2. order D.E.

Solve any 2. order D.E.($y''(x)$)

Check Solution of any 2. order Differential Equation

Homogeneous Differential Equation

Non-Homogeneous Differential Equation

Undetermined Coefficients

Variation of Parameter

Reduction of Order

Initial Value Problem Solver: $[x_0,y_0]$

Find Coefficients using Wronskian

Legendre Differential Equation

Bessel Differential Equation

Cauchy Euler Differential Equation

--Vibrating Spring

RCL Circuits

Higher Order DEQ

Linear Homogeneous 3. Order DEQ

Linear Homogeneous 4. Order DEQ

3. Order Homogeneous Cauchy-Euler DEQ

System of DEQ's: $X'=A*X$

System of DEQ'S: $X'=A*X+F$

Transforms

Solve Differential Equation using Laplace

Transforms

Laplace Transform

Inverse Laplace Transform

Table of Laplace Transforms

Table of Fourier Transforms

Extras

Find EigenValues & EigenVectors

Find Wronskian

Find Partial Fractions

Solve Rate Problems

Convert 3D Coordinates

Convert Degree \leftrightarrow Radian

Partial DEQ

Read about PARTIAL Differential Equations

Read about LAPLACE Differential Equation

Read about DIFFUSION Differential Equation

Read about WAVE Differential Equation

Read about HELMHOLTZ Differential Equation

Read about POISSON Differential Equation

Help & About

Help & Use of Keys

What to Input

About us

Set FontSize