Differential Equations With Applications And Historical Notes

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plug it in back to the original equation

move the constant to the front of the integral

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Accept that sometimes youre not gonna get it

Its okay not to understand

What to do

Outro

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The Physics of Complex Numbers

Complex Numbers in Quantum Mechanics

The New Paper

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Introduction

The equation

- 1: Ansatz
- 2: Energy conservation
- 3: Series expansion
- 4: Laplace transform
- 5: Hamiltonian Flow

Matrix Exponential

Wrap Up

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Intro

The question

Example

Pursuit curves

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What are differential equations

Solution to a differential equation

Examples of solutions

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focus on solving differential equations by means of separating variables

integrate both sides of the function

take the cube root of both sides

find a particular solution

place both sides of the function on the exponents of e

find the value of the constant c

start by multiplying both sides by dx

take the tangent of both sides of the equation

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How To Solve Second Order Linear Differential Equations

Quadratic Formula

The General Solution to the Differential Equation

The General Solution

General Solution of the Differential Equation

The Quadratic Formula

General Solution for Case Number Three

Write the General Solution of the Differential Equation

Boundary Value Problem

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