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Explicit Solutions
Example
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Difference of Equations
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1) Intro.

a) Verifying solutions

2) Four fundamental equations.

3) Classifying differential equations.

4) Basic Integration.

a) Table of common integrals.

5) Separation of variable method.

6) Integration factor method.

7) Direct substitution method.

8) Homogeneous equation.

9) Bernoulli's equation.

10) Exact equation.

11) Almost-exact equation.

All-In-One review.

12) Numerical Methods.

13) Euler's method

14) Runge-Kutta method

15) Directional fields.

16) Existence & Uniqueness Thm.

17) Autonomous equation.

18) 2nd Order Linear Differential Eq..

a) Linear Independence

b) Form of the General Solution

19) Reduction of Order Method.

a) Reduction of Order formula

20) Constant Coefficient Diff. Eq.

21) Cauchy-Euler Diff. Equation.

22) Higher Order Constant Coefficient Eq.

23) Non-homogeneous Diff. Eq

24) Undetermined Coefficient Method.

25) Variation of Parameters Method.

a) Formula for VP method

26) Series Solution Method.

27) Laplace transform method

a) Find Laplace transform.

d) Solving Diff. Equations.

e) Convolution method.

f) Heaviside function.

g) Dirac Delta function.

28) System of equations

a) Elimination method.

b) Laplace transform method.

c) Eigenvectors method.

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2- Homogeneous Method

3- Integrating Factor

4- Exact Differential Equations

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Example 1

Example 2

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Power Series Form for the Solutions

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