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Equations:  
Exercise: p.546:

38: Series Solution  
of  $Y^2 = f(x,y)$

Exercise: p.554:

39: Series Solution  
of a Nonlinear  
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theorem for the ...

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Find a 1-parameter

family of solutions

of each of the

differential equa-

tions 1-16 listed

below. Be careful

to justify all steps

used in obtaining a

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Differential to  
Equations indicate intervals  
Tenenbaum for which the  
Solutions differential

equation and the  
solution are valid.

Also try to discover  
particular solutions  
which are not  
members of the  
family of solutions.

Solved: Show All  
Work. From

*Page 22/64*

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Equation ...

Tenenbaum, M.

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New York, 24-26.

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AUTHORS: Nikolai  
Kislov

Tenenbaum, M.  
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(1985) Ordinary  
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Ordinary

Tenenbaum and Pollard's "Ordinary Differential Equations," chapter 1, section 4, problem 29 asks for a differential equation whose solution is "a family of straight lines that are tangent to the circle  $x^2 + y^2 = c^2$ , where  $c$  is a constant." Since

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the solutions will be lines, I start with the formula  $y = mx + b$ , and since the line is determined by a single parameter (the point on the circle to which the line is tangent) I expect the differential equation to be of order one.

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Differential

Tenenbaum and  
Pollard, Ordinary  
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Equations . . .

Ordinary

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Equations. Morris

Tenenbaum, Harry

Pollard. Dover

Publications,

Incorporated, 2012

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pages. 5Reviews.

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Equations - Morris

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Tenenbaum, Harry

Equations

The solutions of  
ordinary

differential

equations can be found in an easy way with the help of integration. Go through the below example and get the knowledge of how to solve the problem. Question

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## Ordinary

1: Find the solution to the ordinary differential equation  $y' = 2x + 1$ .

Solution: Given,  $y' = 2x + 1$ . Now integrate on both sides,  $\int y' dx = \int (2x + 1) dx$

Ordinary  
Differential  
Equations (Types,  
Solutions &

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Examples)  
Harry Pollard,  
Morris Tenenbaum,  
Salomon Bochner:  
Lectures on Fourier  
Integrals. (AM-42),

Volume 42 0th

Edition 0 Problems

solved: Salomon

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The book starts

with the origin of

ordinary

differential

equations and then

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moves on to the solution of various orders of ODEs.

The author also has lessons on how to solve specific problems using ODE's to hammer home concepts and their usefulness including problems from finance, mechanics, and electric circuits.

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Given  $F$ , a function of  $x$ ,  $y$ , and derivatives of  $y$ .

Then an equation of the form.  $F(x, y, y', \dots, y^{(n-1)}) = y^{(n)}$

$$F(x, y, y', \dots, y^{(n-1)}) = y^{(n)}$$

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$(n-1)$  is called an explicit ordinary differential equation of order  $n$ .

Ordinary  
differential  
equation -  
Wikipedia

$$2y'' - y = 4\sin(3t)$$

$$ty' + 2y = t^2 - t + 1$$

$$ty'' + 2y = t^2 - t +$$

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Ordinary

1.  $y' = e^{-y} \left( 2x - 4 \right)$ .  $y \square =$   
 $e^{-y} ( 2x - 4 )$   
 $\frac{dr}{d\theta} = \frac{r^2}{\theta}$

$\frac{dr}{d\theta} = \frac{r^2}{\theta}$ .

$dr d\theta = r^2 \theta$ .

$y' + \frac{4}{x} y = x^3 y^2$ .  $y \square$   
 $+ 4 x y = x^3 y^2$ .

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Calculator -

Symbolab

Solutions of linear  
ordinary

differential

equations using the  
Laplace transform  
are studied in

Chapter

6, emphasizing

functions involving

Heaviside step

function and Dirac  $\delta$

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Chapter 7 studies solutions of systems of linear ordinary differential

equations. The method of operator, the method of Laplace transform, and the matrix method

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4.5 out of 5 stars ...

It could be edited  
with Instructor's

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Solution Manual, to make the live a little bit more easy for the teacher.

Furthermore, this book is very usefull for people that have to teatch this subject, because of the amount of good exemples that are included. ...

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An ...

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book Ordinary

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Equations in

English language &

script as authored

by M.Tenenbaum,

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H. Pollard. It is counted amongst the classics on the topic of Differential Equations based on the contexts of science, engineering students. It is a voluminous book with almost all the undergraduate and graduate details covered.

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TENENBAUM,

MORRIS: Amazon

Equations

Tenenbaum

...  
The answer is yes;  
the ODE is found  
by differentiating  
the equation of the  
family (5) (using  
implicit

differentiation if it  
has the form (5b)),  
and then using (5)  
to eliminate the  
arbitrary constant  $c$

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from the differentiated equation. Example

1. Find a first-order

ODE whose general

solution is the

family (6)  $y = c x - c$

( $c$  is an arbitrary ...

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