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2.  $t^2 y' - 2y - t^2 = 0$  must be solved for  $y$ . We get  $y = t^2 + t^2 \int \frac{1}{t^3} dt = t^2 + t^2(-\frac{1}{2t^2}) = t^2 - \frac{1}{2}$ .

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Hence, the velocity is  $v(t) = -gt + v_0 = -32t + 20$ , and the first equation in (3.15) becomes  $dx = -gt + v_0 = -32t + 20 \cdot dt$ . Solving by integration, we get  $x(t) = -gt^2 + v_0 t + C_2 = -16t^2 + 20t + C_2$ . Once more we evaluate this at  $t = 0$  to show that  $C_2 = x(0) = x_0 = 6$ , the initial elevation of the ball.

~~Differential equations with boundary value problems ...~~

The MATLAB function `dfield5` is used to plot solutions of first order differential equations of the form  $y'=f(t,y)$  using a variety of solvers: Euler, RK2, RK4, and Dormand-Prince. Direction fields can also be drawn. The MATLAB function `pplane5` is used to draw solutions of planar, autonomous systems having the form  $x'=f(x,y)$ ,  $y'=g(x,y)$ .

~~Polking & Arnold, Ordinary Differential Equations Using ...~~

Combining traditional material with a modern systems approach, this handbook provides a thorough introduction to differential equations, tempering its classic "pure math" approach with more practical applied aspects. Features up-to-date coverage of key topics such as first order equations, matrix algebra, systems, and phase plane portraits.

Originally published in 2006, reissued as part of Pearson's modern classic series.

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Now enhanced with the innovative DE Tools CD-ROM and the iLrn teaching and learning system, this proven text explains the "how" behind the material and strikes a balance between the analytical, qualitative, and quantitative approaches to the study of differential equations. This accessible text speaks to students through a wealth of pedagogical aids, including an abundance of examples, explanations, "Remarks" boxes, definitions, and group projects. This book was written with the student's understanding firmly in mind. Using a straightforward, readable, and helpful style, this book provides a thorough treatment of boundary-value problems and partial differential equations.

There are many excellent texts on elementary differential equations designed for the standard sophomore course. However, in spite of the fact that most courses are one semester in length, the texts have evolved into calculus-like presentations that include a large collection of methods and applications, packaged with student manuals, and Web-based notes, projects, and supplements. All of this comes in several hundred pages of text with busy formats. Most students do not have the time or desire to read voluminous texts and explore internet supplements. The format of this differential equations book is different; it is a one-semester, brief treatment of the basic ideas, models, and solution methods. Its limited coverage places it somewhere between an outline and a detailed textbook. I have tried to write concisely, to the point, and in plain language. Many worked examples and exercises are included. A student who works through this primer will have the tools to go to the next level in applying differential equations to problems in engineering, science, and applied mathematics. It can give some instructors, who want more concise coverage, an alternative to existing texts.

Incorporating an innovative modeling approach, this book for a one-semester differential equations course emphasizes conceptual understanding to help users relate information taught in the classroom to real-world experiences. Certain models reappear throughout the book as running themes to synthesize different concepts from multiple angles, and a dynamical systems focus emphasizes predicting the long-term behavior of these recurring models. Users will discover how to identify and harness the mathematics they will use in their careers, and apply it effectively outside the classroom. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book uses elementary versions of modern methods found in sophisticated mathematics to discuss portions of "advanced calculus" in which the subtlety of the concepts and methods makes rigor difficult to attain at an elementary level.