

$$y(1) = e \Rightarrow c_1 e + c_2 e = e, y'(1) = 0 \Rightarrow c_1 e + 2c_2 e + e = 0 \Rightarrow c_1 e + 2c_2 e = -e \Rightarrow c_1 + c_2 = 1, c_1 + 2c_2 = -1 \\ \Rightarrow c_1 = 3, c_2 = -2 \Rightarrow y = 3e^x - 2xe^x + x e^x \ln x$$

$$59. x^2 y'' + 2xy' - 2y = x^2, y_1 = x^{-2}, y_2 = x$$

$$\Rightarrow v_1' = \frac{\begin{vmatrix} \frac{0}{x^2} & x \\ \frac{2}{x^3} & 1 \end{vmatrix}}{\begin{vmatrix} \frac{x^{-2}}{x^2} & x \\ -2x^{-3} & 1 \end{vmatrix}} = \frac{-x^{-3}}{x^{-1}} = -\frac{1}{2}x^2 \text{ and } v_2' = \frac{\begin{vmatrix} \frac{x^{-1}}{-2x^{-2}} & \frac{0}{x} \\ \frac{x^{-1}}{-2x^{-2}} & \frac{1}{x} \end{vmatrix}}{\begin{vmatrix} \frac{x^{-2}}{x^2} & x \\ -2x^{-3} & 1 \end{vmatrix}} = \frac{x^{-1}}{x^{-1}} = \frac{1}{2}$$

$$\Rightarrow v_1 = \int -\frac{1}{2}x^2 dx = -\frac{1}{12}x^3 \text{ and } v_2 = \int \frac{1}{2} dx = \frac{1}{2}x \Rightarrow y_p = (-\frac{1}{12}x^3)(x^{-2}) + (\frac{1}{2}x)(x) = \frac{1}{4}x^2$$

$$60. x^2 y'' + xy' - y = x, y_1 = x^{-1}, y_2 = x$$

$$\Rightarrow v_1' = \frac{\begin{vmatrix} \frac{0}{x^2} & x \\ \frac{1}{x^3} & 1 \end{vmatrix}}{\begin{vmatrix} \frac{x^{-1}}{x^2} & x \\ -x^{-2} & 1 \end{vmatrix}} = \frac{-x^{-1}}{x^{-1}} = -\frac{1}{2}x \text{ and } v_2' = \frac{\begin{vmatrix} \frac{x^{-1}}{-x^{-2}} & \frac{0}{x} \\ \frac{x^{-1}}{-x^{-2}} & \frac{1}{x} \end{vmatrix}}{\begin{vmatrix} \frac{x^{-1}}{x^2} & x \\ -x^{-2} & 1 \end{vmatrix}} = \frac{x^{-1}}{x^{-1}} = \frac{1}{2}x^{-1}$$

$$\Rightarrow v_1 = \int -\frac{1}{2}x dx = -\frac{1}{4}x^2 \text{ and } v_2 = \int \frac{1}{2}x^{-1} dx = \frac{1}{2}\ln|x| \Rightarrow y_p = (-\frac{1}{4}x^2)(x^{-1}) + (\frac{1}{2}\ln|x|)(x) = -\frac{1}{4}x + \frac{1}{2}x \ln|x|$$

### 17.3 APPLICATIONS

- $mg = 16 \Rightarrow m = \frac{16}{32}; k = 1; \delta = 1 \Rightarrow \frac{16}{32} \frac{d^2y}{dt^2} + 1 \frac{dy}{dt} + 1y = 0 \Rightarrow \frac{1}{2} \frac{d^2y}{dt^2} + \frac{dy}{dt} + y = 0, y(0) = 2, y'(0) = 2$
- $mg = 8 \text{ lb} \Rightarrow m = \frac{8}{32}; 8 = k \cdot 4 \Rightarrow k = 2; \delta = 1.5 \Rightarrow \frac{8}{32} \frac{d^2y}{dt^2} + 1.5 \frac{dy}{dt} + 2y = 0 \Rightarrow \frac{1}{4} \frac{d^2y}{dt^2} + \frac{3}{8} \frac{dy}{dt} + 2y = 0, y(0) = -2, y'(0) = 3$
- $20 = k \cdot \frac{1}{4} \Rightarrow k = 40; w = 25 \text{ lb} \Rightarrow m = \frac{25}{32}; \delta = 0 \Rightarrow \frac{25}{32} \frac{d^2y}{dt^2} + 0 \cdot \frac{dy}{dt} + 40y = 0$ . If  $w = 25 \text{ lb}$ , it stretches the spring  $25 = 40x \Rightarrow x = \frac{5}{8} \text{ ft} \Rightarrow$  spring is now stretched  $\frac{5}{12} - \frac{1}{4} = \frac{1}{24} \text{ ft}$  below equilibrium  $\Rightarrow y(0) = \frac{1}{24}$ ; initial velocity is  $v_0 = \frac{80}{320} = \frac{1}{4} \frac{\text{ft}}{\text{sec}} \Rightarrow y'(0) = \frac{1}{4}$ . Thus we have  $\frac{25}{32} \frac{d^2y}{dt^2} + 40y = 0, y(0) = \frac{1}{24}, y'(0) = \frac{1}{4}$
- $w = 10 \text{ lb} \Rightarrow m = \frac{10}{32}; 10 = k \cdot (\frac{1}{16}) \Rightarrow k = 60 \frac{\text{lb}}{\text{ft}}; \delta = \frac{20}{\sqrt{32}} = \frac{5\sqrt{2}}{\sqrt{32}} \Rightarrow \frac{10}{32} \frac{d^2y}{dt^2} + \frac{5\sqrt{2}}{\sqrt{32}} \frac{dy}{dt} + 60y = 0 \\ \Rightarrow \frac{10}{32} \frac{d^2y}{dt^2} + \frac{5}{\sqrt{2}} \frac{dy}{dt} + 60y = 0, y(0) = \frac{1}{4}, y'(0) = 0$
- $E(t) = 20 \cos t; R \frac{dq}{dt} = 4 \frac{dq}{dt}; \frac{1}{C}q = 10q; L \frac{d^2q}{dt^2} = 2 \frac{d^2q}{dt^2} \Rightarrow 2 \frac{d^2q}{dt^2} + 4 \frac{dq}{dt} + 10q = 20 \cos t, q(0) = 2, q'(0) = 3$
- $L = 2, R = 12, C = \frac{1}{16}, E(t) = 300 \Rightarrow 2 \frac{d^2q}{dt^2} + 12 \frac{dq}{dt} + 16q = 300, q(0) = 0, q'(0) = 0$
- $mg = 16 \Rightarrow m = \frac{16}{32}; k = 1; \text{resistance} = \text{velocity} \Rightarrow \delta = 1 \Rightarrow \frac{1}{2} \frac{d^2y}{dt^2} + 1 \frac{dy}{dt} + 1y = 0, y(0) = 2, y'(0) = 2 \\ \Rightarrow \frac{1}{2}r^2 + r + 1 = 0 \Rightarrow r^2 + 2r + 2 = 0 \Rightarrow r = \frac{-2 \pm \sqrt{2^2 - 4(1)(2)}}{2(1)} = -1 \pm i \Rightarrow y = e^{-t}(c_1 \cos t + c_2 \sin t) \\ \Rightarrow y' = e^{-t}(-c_1 \sin t + c_2 \cos t) - e^{-t}(c_1 \cos t + c_2 \sin t); y(0) = 2 \Rightarrow c_1 = 2; y'(0) = 2 \Rightarrow c_2 - c_1 = 2 \Rightarrow c_2 = 4 \\ \Rightarrow y(t) = e^{-t}(2 \cos t + 4 \sin t). \text{ At } t = \pi, y = e^{-\pi}(2 \cos \pi + 4 \sin \pi) = -2e^{-\pi} \approx -0.0864 \Rightarrow 0.0864 \text{ ft above equilibrium.}$
- $w = 8 \Rightarrow m = \frac{8}{32}; 8 = k \cdot 4 \Rightarrow k = 2; \text{resistance} = 1.5v \Rightarrow \delta = 1.5 \Rightarrow \frac{1}{2} \frac{d^2y}{dt^2} + 1.5 \frac{dy}{dt} + 2y = 0, y(0) = -2, y'(0) = 3 \\ \Rightarrow \frac{1}{4}r^2 + 1.5r + 2 = 0 \Rightarrow r^2 + 6r + 8 = 0 \Rightarrow (r+4)(r+2) \Rightarrow r = -4 \text{ or } r = -2 \Rightarrow y = c_1 e^{-4t} + c_2 e^{-2t} \\ \Rightarrow y' = -4c_1 e^{-4t} - 2c_2 e^{-2t}; y(0) = -2 \Rightarrow c_1 + c_2 = -2; \Rightarrow y'(0) = 3 \Rightarrow -4c_1 - 2c_2 = 3 \Rightarrow c_1 = \frac{1}{2}, c_2 = -\frac{5}{2} \\ \Rightarrow y(t) = \frac{1}{2}e^{-4t} - \frac{5}{2}e^{-2t}. \text{ At } t = 2, y = \frac{1}{2}e^{-8} - \frac{5}{2}e^{-2} \approx -0.0456 \Rightarrow 0.0456 \text{ ft above equilibrium.}$

# Solution Of Thomas Calculus 12th Edition

**R Barnett**



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intuitive exploration of calculus introducing polynomials rational functions exponentials logarithms and trigonometric functions early in the text Using the Rule of Four the authors present mathematical concepts from verbal algebraic visual and numerical points of view *Fast Solution of Discretized Optimization Problems* Karl-Heinz Hoffmann, Ronald W.

Hoppe, Volker Schulz, 2012-12-06 Differential equations partial as well as ordinary are one of the main tools for the modeling of real world application problems Pursuing the ultimate aim of influencing these systems in a desired way one is confronted with the task of optimizing discretized models This volume contains selected papers presented at the International Workshop on Fast Solution of Discretized Optimization Problems which took place at the Weierstrass Institute for Applied Analysis and Stochastics in Berlin from May 08 until May 12 2000 The conference was attended by 59 scientists from 10 countries The scientific program consisted of 8 invited lectures presented by H G Bock IWR Heidelberg M Heinkenschloss Rice University Houston K Kunisch University of Graz U Langer University Linz B Mohammadi University of Montpellier J Petersson University of Linköping E Sachs University of Trier F Troltzsch Technical University of Chemnitz and 28 contributed talks The aim of this workshop was to foster the exchange of ideas between the still comparatively separated disciplines of nonlinear optimization on the one side and numerical methods for differential equations on the other side This is necessary for the successful solution of various current optimization problems in practical applications shape optimization topology optimization process optimization Therefore the organizing committee as well as the speakers have come from both these communities American Book Publishing Record ,2000-07 **Canada Medical and Surgical Journal** George Edgeworth Fenwick, Thomas George Roddick, George Ross, 1878 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1969 *Notes & Queries* William White, 2022-05-08 Reprint of the original first published in 1862

**Teaching Motivation for Student Engagement** Debra K. Meyer, Alyssa Emery, 2021-03-01 Helping teachers understand and apply theory and research is one of the most challenging tasks of teacher preparation and professional development As they learn about motivation and engagement teachers need conceptually rich yet easy to use frameworks At the same time teachers must understand that student engagement is not separate from development instructional decision making classroom management student relationships and assessment This volume on teaching teachers about motivation addresses these challenges The authors share multiple approaches and frameworks to cut through the growing complexity and variety of motivational theories and tie theory and research to real world experiences that teachers are likely to encounter in their courses and classroom experiences Additionally each chapter is summarized with key take away practices A shared perspective across all the chapters in this volume on teaching teachers about motivation is walking the talk In every chapter readers will be provided with rich examples of how research on and principles of classroom motivation can be reconceptualized through a variety of college teaching strategies Teachers and future teachers learning about motivation need to experience explicit modeling practice and constructive feedback in their college courses and professional development in

order to incorporate those into their own practice In addition a core assumption throughout this volume is the importance of understanding the situated nature of motivation and avoiding a one size fits all approach in the classroom Teachers need to fully interrogate their instructional practices not only in terms of motivational principles but also for their cultural relevance equity and developmental appropriateness Just like P 12 students college students bring their histories as learners and beliefs about motivation to their formal study of motivation That is why college instructors teaching motivation must begin by helping students evaluate their personal beliefs and experiences Relatedly college instructors need to know their students and model differentiating their interactions to support each of them The authors in this volume have collectively decades of experience teaching at the college level and conducting research in motivation and provide readers with a variety of strategies to help teachers and future teachers explore how motivation is supported and undermined In each chapter in this volume readers will learn how college instructors can demonstrate what effective motivationally supportive classrooms look sound and feel like      *Boston Medical and Surgical Journal* ,1917

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