



[Manuals.plus](#) /

› [Pearson](#) /

› Pearson Thomas' Calculus: Early Transcendentals 14th Edition Instruction Manual

## Pearson 14th Edition

# Thomas' Calculus: Early Transcendentals

14TH EDITION INSTRUCTION MANUAL

Published by Pearson

## 1. Introduction

---

This manual provides guidance for effectively utilizing *Thomas' Calculus: Early Transcendentals, 14th Edition*. Designed for students in mathematics, engineering, and science, this textbook emphasizes clarity, precision, and practical applications of calculus concepts. It aims to support students in developing a deep understanding of the subject matter.

The 14th Edition, co-authored by Christopher Heil and Joel Hass, maintains the established quality of Thomas' Calculus while incorporating updates to enhance the learning experience. This includes a focus on intuitive explanations, current applications, and generalized concepts to move beyond rote memorization.

An optional companion, MyLab Math, is available to complement the textbook. MyLab Math is an online platform offering homework, tutorials, and assessment tools designed to improve student engagement and learning outcomes. It provides a structured environment for practice, understanding assessment, and personalized study plans.

## 2. Getting Started

---

To begin your study with *Thomas' Calculus: Early Transcendentals*, ensure you have the correct edition and any accompanying materials.

### 2.1. Physical Textbook

The primary component is the physical textbook. Familiarize yourself with its layout, including the preface, chapter organization, and appendices.

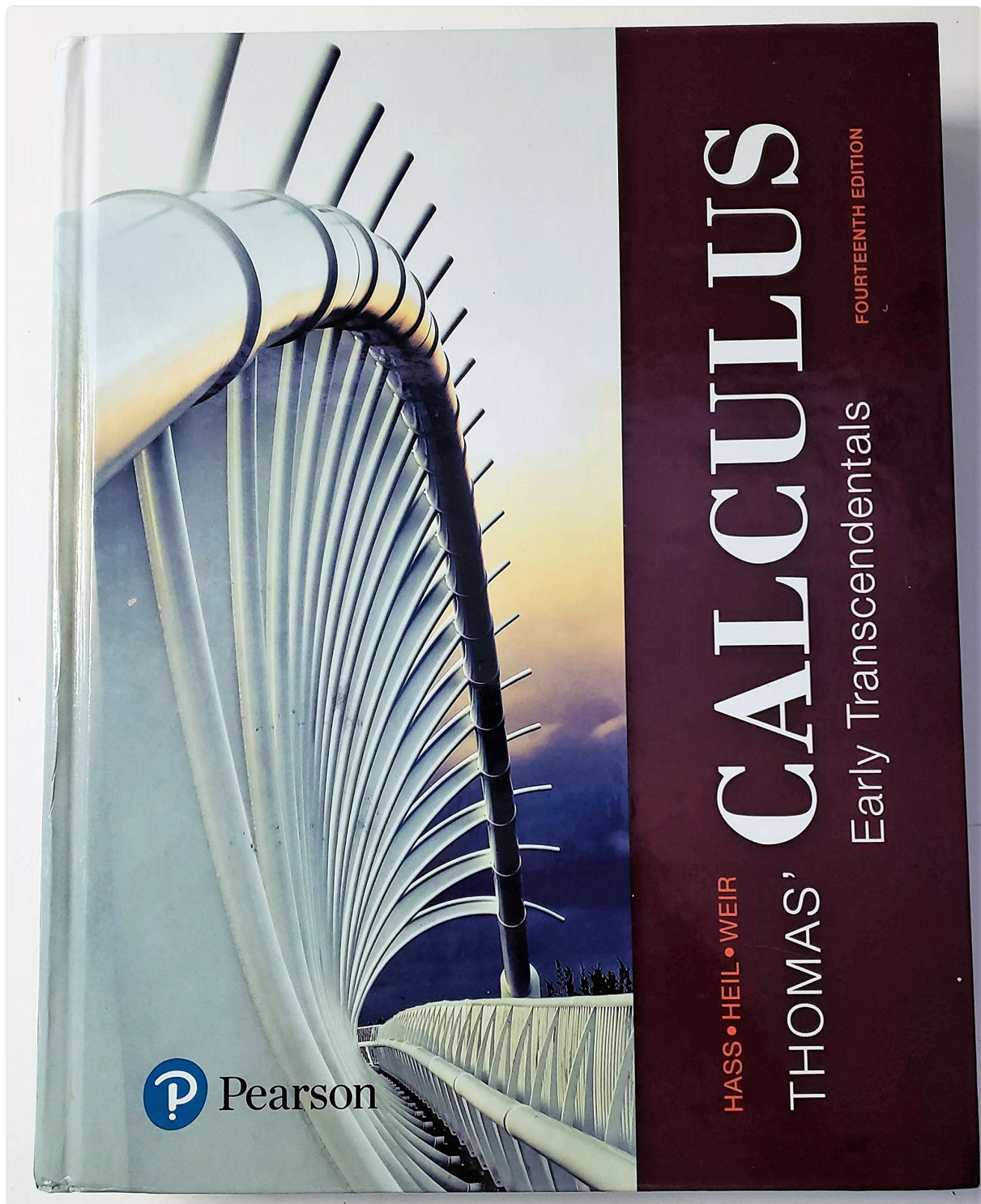


Figure 2.1: Front cover of *Thomas' Calculus: Early Transcendentals, 14th Edition*. This image displays the title, authors, and publisher logo, indicating the specific edition of the textbook.

## 2.2. MyLab Math Access (Optional)

If your course requires MyLab Math, you will need an access code. This code is typically purchased separately or bundled with a new textbook. Refer to the back cover of your textbook or your course syllabus for specific instructions and ISBNs.

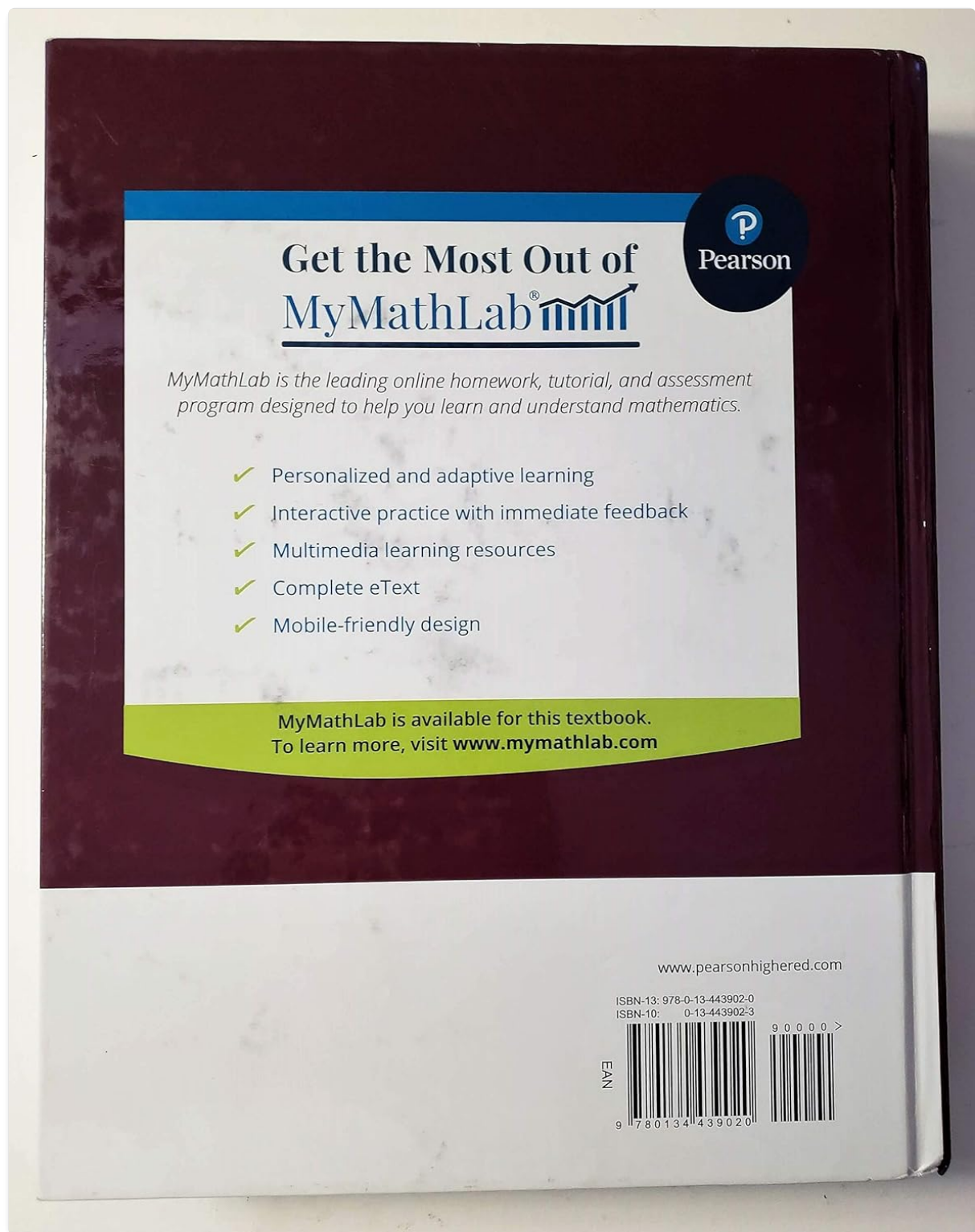


Figure 2.2: Back cover detailing MyLab Math features and access information. The ISBN-13 for this edition is 978-0134439020. Click the image to view the product on Amazon.

The MyLab Math platform offers:

- Personalized and adaptive learning paths.
- Interactive practice exercises with immediate feedback.
- Multimedia learning resources.
- Complete eText version of the textbook.
- Mobile-friendly design for access on various devices.

For MyLab Math registration and support, visit [www.mymathlab.com](http://www.mymathlab.com).

## 3. Using Your Textbook

---

This textbook is structured to facilitate a comprehensive understanding of calculus. Follow these guidelines for optimal use:

### 3.1. Navigating Chapters

Each chapter covers specific topics, building upon previous concepts. It is recommended to read through the introductory sections of each chapter to grasp the learning objectives before delving into the detailed content.

### 3.2. Engaging with Examples and Exercises

The textbook includes numerous examples that illustrate concepts and problem-solving techniques. Work through these examples carefully. End-of-section and end-of-chapter exercises are crucial for reinforcing your understanding. Many exercises include solutions or hints, often for odd-numbered problems, located in the back of the book.

35. (a) Increasing on  $(-\infty, 1)$ ; decreasing when  $1 < x < 2$ , decreasing when  $2 < x < 3$ ; discontinuous at  $x = 2$ ; increasing on  $(3, \infty)$   
 (b) Local minimum at  $x = 3$  (3, 6); local maximum at  $x = 1$  (1, 2); no absolute extrema
37. (a) Increasing on  $(-2, 0)$  and  $(0, \infty)$ ; decreasing on  $(-\infty, 0)$   
 (b) Local minimum:  $-6\sqrt[3]{2}$  at  $x = -2$ ; no absolute maximum; absolute minimum:  $-6\sqrt[3]{2}$  at  $x = -2$
39. (a) Increasing on  $(-\infty, -2/\sqrt{7})$  and  $(2/\sqrt{7}, \infty)$ ; decreasing on  $(-2/\sqrt{7}, 0)$  and  $(0, 2/\sqrt{7})$   
 (b) Local maximum:  $24\sqrt[3]{2}/7^{7/6} \approx 3.12$  at  $x = -2/\sqrt{7}$ ; minimum:  $-24\sqrt[3]{2}/7^{7/6} \approx -3.12$  at  $x = 2/\sqrt{7}$ ; no absolute extrema
41. (a) Increasing on  $((1/3) \ln(1/2), \infty)$ , decreasing on  $(-\infty, (1/3) \ln(1/2))$   
 (b) Local minimum is  $\frac{3}{2^{2/3}}$  at  $x = (1/3) \ln(1/2)$ ; no local maximum; absolute minimum is  $\frac{3}{2^{2/3}}$  at  $x = (1/3) \ln(1/2)$ ; no absolute maximum
43. (a) Increasing on  $(e^{-1}, \infty)$ , decreasing on  $(0, e^{-1})$   
 (b) A local minimum is  $-e^{-1}$  at  $x = e^{-1}$ , no local maximum; absolute minimum is  $-e^{-1}$  at  $x = e^{-1}$

Figure 3.1: Example pages from the 'Answers to Odd-Numbered Exercises' section. This section provides solutions or results for selected problems, aiding in self-assessment.

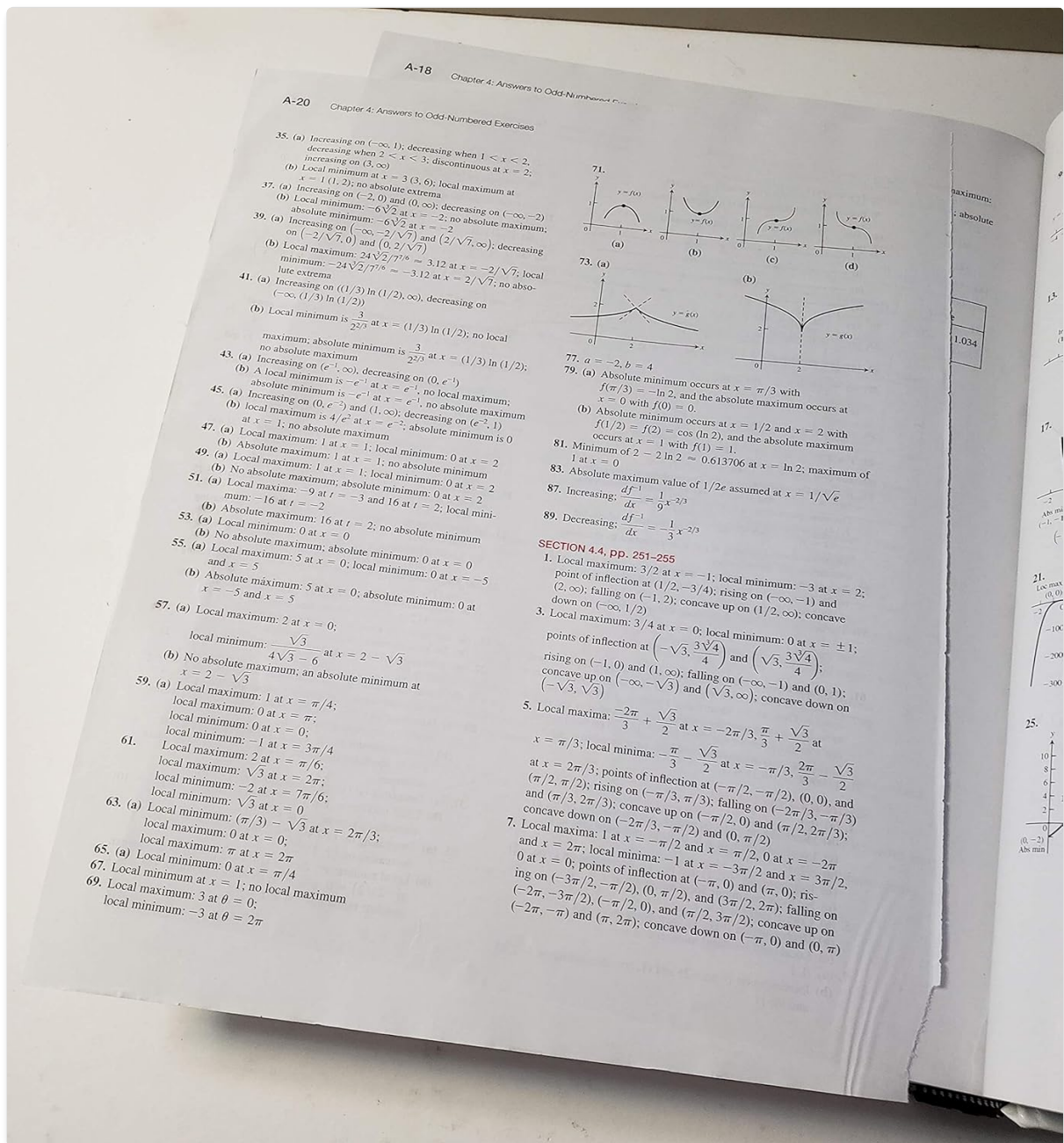


Figure 3.2: Pages illustrating calculus problems, their solutions, and corresponding graphical representations. These visual aids are integral to understanding complex mathematical concepts.

### 3.3. Utilizing MyLab Math

If using MyLab Math, engage with the interactive figures, enhanced sample assignments, and practice exercises. These resources are designed to provide additional support and opportunities for independent problem-solving.

## 4. Care and Maintenance

To ensure the longevity and usability of your textbook, follow these care instructions:

- **Handle with Care:** Avoid bending the spine excessively or tearing pages.
- **Keep Clean:** Protect the book from spills, dirt, and dust. Use a clean, dry cloth to wipe the covers if necessary.

- **Storage:** Store the book in a dry, cool place away from direct sunlight or extreme temperatures to prevent warping or fading.
- **Marking:** Use pencils for notes and highlighting to allow for future erasure or changes, preserving the book's condition.

## 5. Troubleshooting and Support

---

Should you encounter any issues with your textbook or MyLab Math access, please refer to the following guidance:

### 5.1. Physical Book Defects

If your physical textbook has manufacturing defects such as missing pages, incorrect binding, or printing errors, please contact the retailer from whom you purchased the book or the publisher directly. Provide details of the defect and your purchase information for assistance.



Figure 5.1: A close-up view of the Pearson logo on a book page, indicating the publisher. This can be useful for identifying the source of the product for support inquiries.

### 5.2. MyLab Math Technical Support

For issues related to MyLab Math access codes, registration, technical difficulties with the platform, or content errors within the online system, please contact Pearson's MyLab Math support team. Their contact information and support resources are available on the MyLab Math website.

- **MyLab Math Support:** Visit [www.mymathlab.com/support](http://www.mymathlab.com/support)

### 5.3. General Inquiries

For general questions about the content of the textbook or other Pearson products, you may visit the Pearson Higher Education website or contact their customer service department.

- **Pearson Higher Education:** [www.pearsonhighered.com](http://www.pearsonhighered.com)

## 6. Product Specifications

---

Specification	Detail
Publisher	Pearson
Publication Date	January 1, 2017
Edition	14th
Language	English
Print Length	1224 pages
ISBN-10	0134439023
ISBN-13	978-0134439020
Item Weight	5.45 pounds
Dimensions	8.7 x 1.8 x 11 inches

## 7. Return Policy

---

For information regarding returns or exchanges of the textbook, please refer to the return policy of the specific retailer from whom the book was purchased. Policies typically allow for returns within a certain period, often 30 days, for refund or replacement, provided the item is in its original condition.

If purchased directly from Amazon, please consult Amazon's return policy for books and media. For purchases through MyLab Math, refer to Pearson's digital product return policies.