

# HOW LONG IS AP CALCULUS EXAM

**HOW LONG IS AP CALCULUS EXAM** IS A COMMON QUESTION AMONG HIGH SCHOOL STUDENTS PREPARING FOR THIS RIGOROUS ASSESSMENT. UNDERSTANDING THE DURATION OF THE AP CALCULUS EXAM CAN SIGNIFICANTLY INFLUENCE A STUDENT'S PREPARATION STRATEGY AND TIME MANAGEMENT SKILLS DURING THE TEST. IN THIS ARTICLE, WE WILL EXPLORE THE SPECIFIC DURATION OF THE AP CALCULUS EXAM, DELVE INTO ITS STRUCTURE, DISCUSS TYPES OF QUESTIONS INCLUDED, AND PROVIDE INSIGHTS ON HOW TO PREPARE EFFECTIVELY. BY THE END OF THIS ARTICLE, YOU WILL HAVE A COMPREHENSIVE UNDERSTANDING OF THE AP CALCULUS EXAM'S TIMING AND STRUCTURE, ENABLING YOU TO APPROACH IT WITH CONFIDENCE.

- OVERVIEW OF THE AP CALCULUS EXAM
- DURATION AND STRUCTURE OF THE EXAM
- TYPES OF QUESTIONS ON THE AP CALCULUS EXAM
- PREPARATION STRATEGIES FOR THE AP CALCULUS EXAM
- FREQUENTLY ASKED QUESTIONS

## OVERVIEW OF THE AP CALCULUS EXAM

THE AP CALCULUS EXAM IS DESIGNED FOR HIGH SCHOOL STUDENTS WHO HAVE COMPLETED AN ADVANCED PLACEMENT CALCULUS COURSE. IT ASSESSES STUDENTS' UNDERSTANDING OF FUNDAMENTAL CALCULUS CONCEPTS AND THEIR ABILITY TO APPLY THESE CONCEPTS IN VARIOUS CONTEXTS. THE EXAM IS DIVIDED INTO TWO PRIMARY COURSES: AP CALCULUS AB AND AP CALCULUS BC. WHILE BOTH EXAMS COVER SIMILAR FOUNDATIONAL TOPICS, AP CALCULUS BC INCLUDES ADDITIONAL MATERIAL SUCH AS POLAR FUNCTIONS AND SERIES. UNDERSTANDING THE PURPOSE AND IMPORTANCE OF THE AP CALCULUS EXAM IS CRUCIAL FOR STUDENTS AIMING TO EARN COLLEGE CREDIT AND ENHANCE THEIR COLLEGE APPLICATIONS.

IN ADDITION TO ITS ACADEMIC SIGNIFICANCE, THE AP CALCULUS EXAM IS ALSO A VALUABLE OPPORTUNITY FOR STUDENTS TO DEMONSTRATE THEIR MATHEMATICAL SKILLS AND READINESS FOR HIGHER EDUCATION. SCORING WELL ON THIS EXAM CAN LEAD TO ADVANCED PLACEMENT IN COLLEGE COURSES, POTENTIALLY SAVING STUDENTS TIME AND MONEY IN THEIR COLLEGE EDUCATION.

## DURATION AND STRUCTURE OF THE EXAM

THE AP CALCULUS EXAM HAS A SPECIFIC DURATION THAT STUDENTS MUST BE AWARE OF TO MANAGE THEIR TIME EFFECTIVELY DURING THE TEST. THE TOTAL LENGTH OF THE EXAM IS APPROXIMATELY THREE HOURS, DIVIDED INTO TWO SECTIONS: MULTIPLE-CHOICE AND FREE-RESPONSE.

### SECTION 1: MULTIPLE-CHOICE

THE FIRST SECTION CONSISTS OF 45 MULTIPLE-CHOICE QUESTIONS. STUDENTS HAVE 1 HOUR AND 45 MINUTES TO COMPLETE THIS SECTION. THIS PORTION OF THE EXAM TESTS STUDENTS ON THEIR UNDERSTANDING OF CONCEPTS, APPLICATIONS, AND THE INTERPRETATION OF MATHEMATICAL INFORMATION. IT IS CRUCIAL FOR STUDENTS TO READ EACH QUESTION CAREFULLY AND MANAGE THEIR TIME EFFECTIVELY TO ANSWER AS MANY QUESTIONS AS POSSIBLE.

### SECTION 2: FREE-RESPONSE

THE SECOND SECTION INCLUDES 6 FREE-RESPONSE QUESTIONS, WHICH STUDENTS MUST COMPLETE WITHIN 1 HOUR AND 30

MINUTES. THIS PART OF THE EXAM REQUIRES STUDENTS TO SHOW THEIR WORK AND EXPLAIN THEIR REASONING IN SOLVING COMPLEX CALCULUS PROBLEMS. THE FREE-RESPONSE SECTION IS AN OPPORTUNITY TO DEMONSTRATE DEEPER UNDERSTANDING AND APPLICATION OF CALCULUS CONCEPTS, AS STUDENTS MUST ARTICULATE THEIR THOUGHT PROCESSES CLEARLY.

## TYPES OF QUESTIONS ON THE AP CALCULUS EXAM

THE AP CALCULUS EXAM FEATURES A VARIETY OF QUESTION TYPES THAT EVALUATE DIFFERENT SKILLS AND KNOWLEDGE AREAS. UNDERSTANDING THESE TYPES CAN HELP STUDENTS PREPARE EFFECTIVELY.

- **MULTIPLE-CHOICE QUESTIONS:** THESE QUESTIONS REQUIRE STUDENTS TO SELECT THE CORRECT ANSWER FROM A LIST OF OPTIONS. THEY ASSESS KNOWLEDGE OF CALCULUS CONCEPTS AND APPLICATIONS.
- **FREE-RESPONSE QUESTIONS:** THESE QUESTIONS REQUIRE STUDENTS TO SOLVE PROBLEMS AND PROVIDE DETAILED EXPLANATIONS OF THEIR SOLUTIONS. THEY TEST NOT ONLY THE FINAL ANSWER BUT ALSO THE METHODOLOGY USED TO ARRIVE AT THAT ANSWER.
- **GRAPHICAL ANALYSIS:** STUDENTS MAY BE PRESENTED WITH GRAPHS AND ASKED TO ANALYZE OR INTERPRET INFORMATION, WHICH IS A CRUCIAL SKILL IN CALCULUS.
- **CONCEPTUAL QUESTIONS:** SOME QUESTIONS ARE DESIGNED TO ASSESS STUDENTS' UNDERSTANDING OF CALCULUS CONCEPTS RATHER THAN JUST COMPUTATIONAL SKILLS.

## PREPARATION STRATEGIES FOR THE AP CALCULUS EXAM

EFFECTIVE PREPARATION FOR THE AP CALCULUS EXAM REQUIRES A STRATEGIC APPROACH. HERE ARE SEVERAL KEY STRATEGIES THAT CAN HELP STUDENTS SUCCEED:

- **UNDERSTAND THE EXAM FORMAT:** FAMILIARIZE YOURSELF WITH THE STRUCTURE AND TIMING OF THE EXAM. KNOWING HOW LONG EACH SECTION LASTS WILL HELP YOU PRACTICE PACING YOURSELF DURING THE TEST.
- **PRACTICE WITH PAST EXAMS:** UTILIZE PAST AP EXAMS AND PRACTICE QUESTIONS TO BECOME COMFORTABLE WITH THE TYPES OF QUESTIONS THAT MAY APPEAR ON THE TEST.
- **FOCUS ON WEAK AREAS:** IDENTIFY TOPICS WHERE YOU STRUGGLE AND DEDICATE ADDITIONAL STUDY TIME TO MASTERING THOSE CONCEPTS.
- **STUDY GROUPS:** JOIN OR FORM STUDY GROUPS WITH PEERS TO REVIEW MATERIAL, DISCUSS CONCEPTS, AND WORK THROUGH PRACTICE PROBLEMS TOGETHER.
- **USE REVIEW BOOKS:** INVEST IN REPUTABLE AP CALCULUS REVIEW BOOKS THAT PROVIDE SUMMARIES, PRACTICE QUESTIONS, AND EXAM STRATEGIES.

INCORPORATING THESE STRATEGIES INTO YOUR STUDY PLAN CAN ENHANCE YOUR UNDERSTANDING OF CALCULUS AND IMPROVE YOUR PERFORMANCE ON THE EXAM DAY. CONSISTENT PRACTICE AND A THOROUGH UNDERSTANDING OF THE EXAM FORMAT ARE KEY TO ACHIEVING A HIGH SCORE.

## FREQUENTLY ASKED QUESTIONS

### Q: HOW LONG IS THE AP CALCULUS EXAM?

A: THE AP CALCULUS EXAM LASTS APPROXIMATELY THREE HOURS, DIVIDED INTO TWO SECTIONS: 1 HOUR AND 45 MINUTES FOR THE MULTIPLE-CHOICE SECTION AND 1 HOUR AND 30 MINUTES FOR THE FREE-RESPONSE SECTION.

### Q: WHAT TOPICS ARE COVERED IN THE AP CALCULUS EXAM?

A: THE AP CALCULUS EXAM COVERS TOPICS SUCH AS LIMITS, DERIVATIVES, INTEGRALS, THE FUNDAMENTAL THEOREM OF CALCULUS, AND THE ANALYSIS OF FUNCTIONS. AP CALCULUS BC INCLUDES ADDITIONAL TOPICS LIKE SERIES AND POLAR COORDINATES.

### Q: CAN I BRING A CALCULATOR TO THE AP CALCULUS EXAM?

A: YES, STUDENTS ARE ALLOWED TO USE A GRAPHING CALCULATOR FOR PART OF THE AP CALCULUS EXAM, SPECIFICALLY DURING THE FREE-RESPONSE SECTION. HOWEVER, CALCULATORS ARE NOT PERMITTED IN THE MULTIPLE-CHOICE SECTION.

### Q: HOW IS THE AP CALCULUS EXAM SCORED?

A: THE AP CALCULUS EXAM IS SCORED ON A SCALE OF 1 TO 5. THE MULTIPLE-CHOICE SECTION ACCOUNTS FOR 50% OF THE SCORE, WHILE THE FREE-RESPONSE SECTION ACCOUNTS FOR THE REMAINING 50%.

### Q: WHEN IS THE AP CALCULUS EXAM TYPICALLY ADMINISTERED?

A: THE AP CALCULUS EXAM IS USUALLY ADMINISTERED IN MAY EACH YEAR, IN LINE WITH THE COLLEGE BOARD'S AP EXAM SCHEDULE.

### Q: HOW CAN I IMPROVE MY TIME MANAGEMENT DURING THE AP CALCULUS EXAM?

A: TO IMPROVE TIME MANAGEMENT, PRACTICE WITH TIMED MOCK EXAMS, BECOME FAMILIAR WITH THE EXAM FORMAT, AND DEVELOP A STRATEGY FOR HOW MUCH TIME TO ALLOCATE TO EACH QUESTION.

### Q: WHAT RESOURCES ARE AVAILABLE FOR AP CALCULUS EXAM PREPARATION?

A: RESOURCES FOR PREPARATION INCLUDE AP REVIEW BOOKS, ONLINE PRACTICE EXAMS, STUDY GROUPS, AND AP CALCULUS COURSES OFFERED BY VARIOUS EDUCATIONAL INSTITUTIONS.

### Q: IS THERE A DIFFERENCE BETWEEN AP CALCULUS AB AND AP CALCULUS BC?

A: YES, AP CALCULUS AB COVERS FOUNDATIONAL CALCULUS CONCEPTS, WHILE AP CALCULUS BC INCLUDES ADDITIONAL TOPICS SUCH AS SEQUENCES, SERIES, AND POLAR FUNCTIONS, MAKING IT A MORE ADVANCED COURSE.

### Q: HOW DO COLLEGES VIEW AP CALCULUS EXAM SCORES?

A: MANY COLLEGES CONSIDER AP CALCULUS EXAM SCORES AS PART OF THEIR ADMISSIONS PROCESS AND MAY GRANT COLLEGE CREDIT OR ADVANCED PLACEMENT FOR HIGH SCORES, DEPENDING ON THEIR SPECIFIC POLICIES.

## Q: WHAT SHOULD I DO THE NIGHT BEFORE THE AP CALCULUS EXAM?

A: THE NIGHT BEFORE THE EXAM, FOCUS ON GETTING A GOOD NIGHT'S SLEEP, REVIEW KEY CONCEPTS, AND PREPARE ALL NECESSARY MATERIALS, SUCH AS YOUR CALCULATOR AND ID. AVOID CRAMMING AND TRUST IN YOUR PREPARATION.

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**how long is ap calculus exam:** *Barron's AP Calculus* David Bock, Dennis Donovan, Shirley O. Hockett, 2017-07-24 Barron's AP Calculus is aligned with the current exam curriculum and provides comprehensive review and practice exams for both AP Calculus AB and BC. This edition includes: Three practice exams for Calculus AB and three for Calculus BC, all modified to reflect the new exam format Answer explanations for all test questions Diagnostic tests to help pinpoint strengths and weaknesses Detailed subject review covering topics for both exams Advice to students on efficient use of their graphing calculators Online Practice Test: Students will also get access to one additional full-length online AP Calculus test with all questions answered and explained.

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**how long is ap calculus exam:** *AP Calculus Premium, 2022-2023: 12 Practice Tests + Comprehensive Review + Online Practice* David Bock, Dennis Donovan, Shirley O. Hockett, 2022-01-04 Be prepared for exam day with Barron's. Trusted content from AP experts! Barron's AP Calculus Premium: 2022-2023 includes in-depth content review and online practice for the AB and BC exams. It's the only book you'll need to be prepared for exam day. Written by Experienced Educators Learn from Barron's--all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exams Get a leg up with tips, strategies, and study advice for exam day--it's like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test-taking skills with 12 full-length practice tests--4 AB practice tests and 4 BC practice tests in the book, including a diagnostic AB test and a diagnostic BC test to target your studying--and 2 more AB practice tests and 2 more BC practice tests online Strengthen your

knowledge with in-depth review covering all Units on the AP Calculus AB and BC Exams Reinforce your learning with multiple-choice practice questions at the end of each chapter Enhance your problem-solving skills with new and revised multiple-choice and free-response practice questions throughout the book, including a chapter filled with multiple-choice questions and a chapter devoted to free-response practice exercises Online Practice Continue your practice with 2 full-length AB practice tests and 2 full-length BC practice tests on Barron's Online Learning Hub Simulate the exam experience with a timed test option Deepen your understanding with detailed answer explanations and expert advice Gain confidence with scoring to check your learning progress

**how long is ap calculus exam: 5 Steps to a 5 AP Calculus AB** William Ma, Grace Freedson, 2002-02-04 An exciting new series of study guides that lets each student design a course of study pitched to his or her individual needs and learning style Each year, more than one million U.S. high school students take one or more advanced placement (AP) exams, and, according to official projections, that number will continue to rise in the years ahead. That is because AP exams confer important benefits on those who do well on them. High AP scores are indispensable to gaining admission to most elite colleges. They provide students with a competitive edge when competing for grants and scholarships. And they allow students to bypass required university survey courses, saving on skyrocketing tuition fees. Designed to coincide perfectly with the most current AP exams, Five Steps to a 5 on the Advanced Placement Examinations guides contain several advanced features that set them above all competitors. Each guide is structured around an ingenious Five-Step Plan. The first step is to develop a study plan, the second builds knowledge, the third and fourth hone test-taking skills and strategies, and the fifth fosters the confidence students need to ace the tests. This flexible study tool is also tailored to three types of students. For the more structured student there is a Month-by-Month approach that follows the school year and a Calendar Countdown approach that begins with the new year. For students who leave studying to the last minute Basic Training covers the basics in just four weeks. Other outstanding features include: Sample tests that closely simulate real exams Review material based on the contents of the most recent tests Icons highlighting important facts, vocabulary, and frequently-asked questions Boxed quotes offering advice from students who have aced the exams and from AP teachers and college professors Websites and links to valuable online test resources, along with author e-mail addresses for students with follow-up questions Authors who are either AP course instructors or exam developers

**how long is ap calculus exam: AP® Calculus AB & BC All Access Book + Online Stu** Schwartz, 2017-01-04 All Access for the AP® Calculus AB & BC Exams Book + Web + Mobile Updated for the new 2017 Exams Everything you need to prepare for the Advanced Placement® Calculus exams, in a study system built around you! There are many different ways to prepare for an Advanced Placement® exam. What's best for you depends on how much time you have to study and how comfortable you are with the subject matter. To score your highest, you need a system that can be customized to fit you: your schedule, your learning style, and your current level of knowledge. This book, and the online tools that come with it, will help you personalize your AP® Calculus prep by testing your understanding, pinpointing your weaknesses, and delivering flashcard study materials unique to you. REA's All Access system allows you to create a personalized study plan through three simple steps: targeted review of exam content, assessment of your knowledge, and focused study in the topics where you need the most help. Here's how it works: Review the Book: Study the topics tested on the AP® Calculus AB & BC exams and learn proven strategies that will help you tackle any question you may see on test day. Test Yourself and Get Feedback: As you review the book, test yourself with 9 end-of-chapter quizzes and 3 mini-tests. Score reports from your free online tests and quizzes give you a fast way to pinpoint what you really know and what you should spend more time studying. Improve Your Score: Armed with your score reports, you can personalize your study plan. Review the parts of the book where you are weakest, and use the REA Study Center to create your own unique e-flashcards, adding to the 100 free cards included with this book. Visit The REA Study Center for a suite of online tools: The best way to personalize your study plan is to get frequent feedback on what you know and what you don't know. At the online REA

Study Center, you can access three types of assessment: topic-level quizzes, mini-tests, and a full-length practice test. Each of these tools provides true-to-format questions and delivers a detailed score report that follows the topics set by the College Board®. Topic Level Quizzes: Short, 15-minute quizzes are available throughout the review and test your immediate understanding of the topics just covered. Mini-Tests: Three online mini-tests cover what you've studied. These tests are like the actual AP® exam, only shorter, and will help you evaluate your overall understanding of the subject. 2 Full-Length Practice Tests - (1 for Calculus AB and 1 for Calculus BC): After you've finished reviewing the book, take our full-length practice exams to practice under test-day conditions. Available both in the book and online, these tests give you the most complete picture of your strengths and weaknesses. We strongly recommend you take the online versions of the exams for the added benefits of timed testing, automatic scoring, and a detailed score report. Improving Your Score with e-Flashcards: With your score reports from the quizzes and tests, you'll be able to see exactly which AP® Calculus topics you need to review. Use this information to create your own flashcards for the areas where you are weak. And, because you will create these flashcards through the REA Study Center, you can access them from any computer or smartphone. REA's All Access test prep is a must-have for students taking the AP® Calculus AB & BC exams!

**how long is ap calculus exam:** 5 Steps to a 5 AP Calculus AB - BC, Second Edition William Ma, 2006-12 The AP AB/BC calculus exams have the largest enrollment of any AP exam. This AB/BC guide covers both the AB and BC calculus tests and includes information on the material covered in the revision of the exams.

**how long is ap calculus exam:** Cracking the AP Calculus AB & BC Exams 2012 David S. Kahn, Princeton Review (Firm), 2011-08-02 Provides a review of the relevant math topics, test-taking tips, and five practice tests with answers.

**how long is ap calculus exam:** Embracing Reason Daniel Chazan, Sandra Callis, Michael Lehman, 2009-12-16 This book tells a single story, in many voices, about a serious and sustained set of changes in mathematics teaching practice in a high school and how those efforts influenced and were influenced by a local university. It includes the writings and perspectives of high school students, high school teachers, preservice teacher candidates, doctoral students in mathematics education and other fields, mathematics teacher educators, and other education faculty. As a whole, this case study provides an opportunity to reflect on reform visions of mathematics for all students and the challenges inherent in the implementation of these visions in US schools. It challenges us to rethink boundaries between theory and practice and the relative roles of teachers and university faculty in educational endeavors.

**how long is ap calculus exam:** Learn for Excellence Bert Lundy, 2021-07-07 Learn for Excellence: How You Can Prepare Your Children for College and Life By: Bert Lundy Learn for Excellence is a guide to the tutoring system of the same name for students in grades 1-12. The tutoring system covers Math, English, Geography, and other fundamental education tenants. The book consists of two parts. The first part explains how the tutoring system works, so that parents can help their children get an excellent education despite the state of the US education system. The second part is a compilation of related newsletters, which give additional insight into education and related areas. Professor Lundy has a B.A. in Mathematics, minoring in German and History, from Texas A&M, and a Ph.D. in Computer Science from Georgia Tech, in Atlanta. He has taught and spoken internationally—from London to Japan—and has extensive professional experience in computer science, software engineering, and networking. Through all of this experience, in 2010 he developed his specialized tutoring system, Learn for Excellence.

**how long is ap calculus exam:** The Brilliance of Black Children in Mathematics Jacqueline Leonard, Danny B. Martin, 2013-03-01 This book is a critically important contribution to the work underway to transform schooling for students who have historically been denied access to a quality education, specifically African American children. The first section of the book provides some historical perspective critical to understanding the current state of education in the U.S., specifically for the education of African American children. The following sections include chapters on policy,

learning, ethnomathematics, student identity, and teacher preparation as it relates to the mathematical education of Black children. Through offering “counternarratives” about mathematically successful Black youth, advocating for a curriculum that is grounded in African American culture and ways of thinking, providing shining examples of the brilliance of Black students, and promoting high expectations for all rather than situating students as the problem, the authors of this book provide powerful insights related to the teaching and learning of mathematics for African American students. As is made evident in this book, effective teaching involves much more than just engaging students in inquiry-based pedagogy (Kitchen, 2003). The chapters offered in this book demonstrate how mathematics instruction for African American students needs to take into account historical marginalization and present-day policies that do harm to Black students (Kunjufu, 2005). Empowering mathematics instruction for African American students needs to take into consideration and promote students’ cultural, spiritual, and historical identities. Furthermore, mathematics instruction for African American students should create opportunities for students to express themselves and the needs of their communities as a means to promote social justice both within their classrooms and communities.

**how long is ap calculus exam: Mathematics in Popular Culture** Jessica K. Sklar, Elizabeth S. Sklar, 2014-01-10 Mathematics has maintained a surprising presence in popular media for over a century. In recent years, the movies *Good Will Hunting*, *A Beautiful Mind*, and *Stand and Deliver*, the stage plays *Breaking the Code* and *Proof*, the novella *Flatland* and the hugely successful television crime series *NUMB3RS* all weave mathematics prominently into their storylines. Less obvious but pivotal references to the subject appear in the blockbuster TV show *Lost*, the cult movie *The Princess Bride*, and even Tolstoy's *War and Peace*. In this collection of new essays, contributors consider the role of math in everything from films, baseball, crossword puzzles, fantasy role-playing games, and television shows to science fiction tales, award-winning plays and classic works of literature. Revealing the broad range of intersections between mathematics and mainstream culture, this collection demonstrates that even mass entertainment can have a hidden depth.

**how long is ap calculus exam: My Max Score AP Calculus AB/BC** Carolyn Wheeler, 2011 Provides test-taking tips and strategies, reviews topics on the test, and includes a full-length practice exam with answers and explanations.

**how long is ap calculus exam: Departments of Labor, Health and Human Services, and Education, and Related Agencies Appropriations for Fiscal Year 2008** United States. Congress. Senate. Committee on Appropriations. Subcommittee on Departments of Labor, Health and Human Services, Education, and Related Agencies, 2008

**how long is ap calculus exam: Hollyweird Science: The Next Generation** Kevin R. Grazier, Stephen Cass, 2017-08-02 Informative, entertaining and upbeat, this book continues Grazier and Cass's exploration of how technology, science, and scientists are portrayed in Hollywood productions. Both big and small-screen productions are featured and their science content illuminated—first by the authors and subsequently by a range of experts from science and the film world. Starring roles in this volume are played by, among other things, computers (human and mechanical), artificial intelligences, robots, and spacecraft. Interviews with writers, producers, and directors of acclaimed science-themed films stand side by side with the perspectives of scientists, science fiction authors, and science advisors. The result is a stimulating and informative reading experience for the layperson and professional scientist or engineer alike. The book begins with a foreword by Zack Stentz, who co-wrote *X-Men: First Class* and *Thor*, and is currently a writer/producer on CW's *The Flash*.

**how long is ap calculus exam: The Struggle for Identity in Today's Schools** Patrick M. Jenlink (Ed), Faye Hicks Townes, 2009-05-16 *The Struggle for Identity in Today's Schools* examines cultural recognition and the struggle for identity in America's schools. In particular, the contributing authors focus on the recognition and misrecognition as antagonistic cultural forces that work to shape, and at times distort identity. What surfaces throughout the chapters are two lessons to be learned in relation to identity. The first lesson is that identities and the acts attributed to them are always





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