

AP® CALCULUS AB
2013 SCORING GUIDELINES

Question 3

t (minutes)	0	1	2	3	4	5	6
$C(t)$ (ounces)	0	5.3	8.8	11.2	12.8	13.8	14.5

Hot water is dripping through a coffeemaker, filling a large cup with coffee. The amount of coffee in the cup at time t , $0 \leq t \leq 6$, is given by a differentiable function C , where t is measured in minutes. Selected values of $C(t)$, measured in ounces, are given in the table above.

- Use the data in the table to approximate $C'(3.5)$. Show the computations that lead to your answer, and indicate units of measure.
- Is there a time t , $2 \leq t \leq 4$, at which $C'(t) = 2$? Justify your answer.
- Use a midpoint sum with three subintervals of equal length indicated by the data in the table to approximate the value of $\frac{1}{6} \int_0^6 C(t) dt$. Using correct units, explain the meaning of $\frac{1}{6} \int_0^6 C(t) dt$ in the context of the problem.
- The amount of coffee in the cup, in ounces, is modeled by $B(t) = 16 - 16e^{-0.4t}$. Using this model, find the rate at which the amount of coffee in the cup is changing when $t = 5$.

(a) $C'(3.5) \approx \frac{C(4) - C(3)}{4 - 3} = \frac{12.8 - 11.2}{1} = 1.6$ ounces/min

2 : $\begin{cases} 1 : \text{approximation} \\ 1 : \text{units} \end{cases}$

(b) C is differentiable $\Rightarrow C$ is continuous (on the closed interval)

$$\frac{C(4) - C(2)}{4 - 2} = \frac{12.8 - 8.8}{2} = 2$$

2 : $\begin{cases} 1 : \frac{C(4) - C(2)}{4 - 2} \\ 1 : \text{conclusion, using MVT} \end{cases}$

Therefore, by the Mean Value Theorem, there is at least one time t , $2 < t < 4$, for which $C'(t) = 2$.

$$\begin{aligned} (c) \quad \frac{1}{6} \int_0^6 C(t) dt &\approx \frac{1}{6} [2 \cdot C(1) + 2 \cdot C(3) + 2 \cdot C(5)] \\ &= \frac{1}{6} (2 \cdot 5.3 + 2 \cdot 11.2 + 2 \cdot 13.8) \\ &= \frac{1}{6} (60.6) = 10.1 \text{ ounces} \end{aligned}$$

3 : $\begin{cases} 1 : \text{midpoint sum} \\ 1 : \text{approximation} \\ 1 : \text{interpretation} \end{cases}$

$\frac{1}{6} \int_0^6 C(t) dt$ is the average amount of coffee in the cup, in ounces, over the time interval $0 \leq t \leq 6$ minutes.

(d) $B'(t) = -16(-0.4)e^{-0.4t} = 6.4e^{-0.4t}$

2 : $\begin{cases} 1 : B'(t) \\ 1 : B'(5) \end{cases}$

$$B'(5) = 6.4e^{-0.4(5)} = \frac{6.4}{e^2} \text{ ounces/min}$$

2013 Ap Calculus Ab Response Scoring Guidelines

William Ma

2013 Ap Calculus Ab Response Scoring Guidelines:

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Calculus AB BC student must have When it's crucial crunch time and your Advanced Placement exam is just around the corner you need REA's Crash Course for AP Calculus AB BC *Gender and Fair Assessment* Warren W. Willingham, Nancy S. Cole, 2013-12-16 There have been many important changes in the participation of women and men in American society over the past quarter century Tests play a role in those changes by providing evidence of the diverse achievement and proficiency of women and men They aid the learning process and reflect inequalities in opportunity to learn and participate In addition they provide useful information in considering what alternatives in education and work make most sense for individuals and influence views about groups of students educational programs and a wide range of issues For all of these reasons it is important that tests assess fairly and reflect accurately the ways young people are and are not achieving as well as desired The test performance of women and men is a research topic of historical interest and has received much attention in recent years Because of this increased interest there is a great deal of new research and data available The purpose of the study presented in this volume was to review this new information with two objectives in mind to clarify patterns of gender difference and similarity in test performance and related achievements and to see what implications those findings might have for fair assessment and as a corollary examine the assessment process as a possible source of gender differences This study is interested in tests used in education to assess developed knowledge and skill In order to gain a broader view of gender similarity and difference the contributors looked at other types of measures and other characteristics of young women and men Their hope is to contribute to a firmer basis for insuring fairness in tests an objective which is particularly important as the field moves increasingly to new forms of assessment in which there is less experience *5 Steps to a 5 AP Calculus AB, 2014-2015 Edition* William Ma, 2013-07-26 Get ready for your AP exam with this straightforward and easy to follow study guide updated for all the latest exam changes 5 Steps to a 5 AP Calculus AB features an effective 5 step plan to guide your preparation program and help you build the skills knowledge and test taking confidence you need to succeed This fully revised edition covers the latest course syllabus and provides model tests that reflect the latest version of the exam Inside you will find 5 Step Plan to a Perfect 5 1 Set Up Your Study Program 2 Determine Your Test Readiness 3 Develop Strategies for Success 4 Develop the Knowledge You Need to Score High 5 Build Your Test Taking Confidence 2 complete practice AP Calculus AB exams 3 separate plans to fit your study style Review material updated and geared to the most recent tests Savvy information on how tests are constructed scored and used *The American Freshman* Kevin Eagan, 2016-02 Provides national normative data on the characteristics of students attending American colleges and universities as first time full time freshmen *5 Steps to a 5: AP Calculus AB 2019* William Ma, 2018-08-06 A PERFECT PLAN FOR THE PERFECT SCORE Score Raising Features Include 4 full length practice exams 2 in the book 2 on Cross Platform Comprehensive overview of the AP Calculus BC exam format with step by step explanations for nearly 800 Calc AP problems Clear demonstrations for using the TI 89 calculator to solve Calculus AB problems Cumulative review sections at

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Table of Contents 2013 Ap Calculus Ab Response Scoring Guidelines

1. Understanding the eBook 2013 Ap Calculus Ab Response Scoring Guidelines
 - The Rise of Digital Reading 2013 Ap Calculus Ab Response Scoring Guidelines
 - Advantages of eBooks Over Traditional Books
2. Identifying 2013 Ap Calculus Ab Response Scoring Guidelines
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 2013 Ap Calculus Ab Response Scoring Guidelines
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2013 Ap Calculus Ab Response Scoring Guidelines
 - Personalized Recommendations
 - 2013 Ap Calculus Ab Response Scoring Guidelines User Reviews and Ratings

- 2013 Ap Calculus Ab Response Scoring Guidelines and Bestseller Lists
- 5. Accessing 2013 Ap Calculus Ab Response Scoring Guidelines Free and Paid eBooks
 - 2013 Ap Calculus Ab Response Scoring Guidelines Public Domain eBooks
 - 2013 Ap Calculus Ab Response Scoring Guidelines eBook Subscription Services
 - 2013 Ap Calculus Ab Response Scoring Guidelines Budget-Friendly Options
- 6. Navigating 2013 Ap Calculus Ab Response Scoring Guidelines eBook Formats
 - ePUB, PDF, MOBI, and More
 - 2013 Ap Calculus Ab Response Scoring Guidelines Compatibility with Devices
 - 2013 Ap Calculus Ab Response Scoring Guidelines Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2013 Ap Calculus Ab Response Scoring Guidelines
 - Highlighting and Note-Taking 2013 Ap Calculus Ab Response Scoring Guidelines
 - Interactive Elements 2013 Ap Calculus Ab Response Scoring Guidelines
- 8. Staying Engaged with 2013 Ap Calculus Ab Response Scoring Guidelines
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2013 Ap Calculus Ab Response Scoring Guidelines
- 9. Balancing eBooks and Physical Books 2013 Ap Calculus Ab Response Scoring Guidelines
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2013 Ap Calculus Ab Response Scoring Guidelines
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 2013 Ap Calculus Ab Response Scoring Guidelines
 - Setting Reading Goals 2013 Ap Calculus Ab Response Scoring Guidelines
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2013 Ap Calculus Ab Response Scoring Guidelines
 - Fact-Checking eBook Content of 2013 Ap Calculus Ab Response Scoring Guidelines
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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