

**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.

- (a) Use the data in the table to approximate  $C'(3.5)$ . Show the computations that lead to your answer, and indicate units of measure.
- (b) Is there a time  $t$ ,  $2 \leq t \leq 4$ , at which  $C'(t) = 2$ ? Justify your answer.
- (c) 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.
- (d) 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)  
 $\frac{C(4) - C(2)}{4 - 2} = \frac{12.8 - 8.8}{2} = 2$

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

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

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

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)  $B'(t) = -16(-0.4)e^{-0.4t} = 6.4e^{-0.4t}$   
 $B'(5) = 6.4e^{-0.4(5)} = \frac{6.4}{e^2}$  ounces/min

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

# 2013 Ap Calculus Ab Response Scoring Guidelines

**David Lederman**



## **2013 Ap Calculus Ab Response Scoring Guidelines:**

**5 Steps to a 5 AP Calculus AB & BC, 2012-2013 Edition** William Ma, 2011-06-10 A Perfect Plan for the Perfect Score We want you to succeed on your AP exam That s why we ve created this 5 step plan to help you study more effectively use your preparation time wisely and get your best score This easy to follow guide offers you a complete review of your AP course strategies to give you the edge on test day and plenty of practice with AP style test questions You ll sharpen your subject knowledge strengthen your thinking skills and build your test taking confidence with Full length practice exams modeled on the real test All the terms and concepts you need to know to get your best score Your choice of three customized study schedules so you can pick the one that meets your needs The 5 Step Plan helps you get the most out of your study time Step 1 Set Up Your Study Program Step 2 Determine Your Readiness Step 3 Develop the Strategies Step 4 Review the Knowledge Step 5 Build Your Confidence Topics include Limits and Continuity Differentiation Graphs of Functions and Derivatives Applications of Derivatives More Applications of Derivatives Integration Definite Integrals Areas and Volumes More Applications of Definite Integrals Series **AP® Calculus AB & BC Crash Course Book + Online** Joan Rosebush, 2016-10-06 REA s Crash Course for the AP Calculus AB BC Exams Gets You a Higher Advanced Placement Score in Less Time 2nd Edition Updated for the 2017 Exams Crash Course is perfect for the time crunched student the last minute studier or anyone who wants a refresher on the subject Are you crunched for time Have you started studying for your Advanced Placement Calculus AB BC exams yet How will you memorize everything you need to know before the tests Do you wish there was a fast and easy way to study for the exams AND boost your score If this sounds like you don t panic REA s Crash Course for AP Calculus AB BC is just what you need Our Crash Course gives you Targeted Focused Review Study Only What You Need to Know The Crash Course is based on an in depth analysis of the AP Calculus AB BC course description outline and actual AP test questions It covers only the information tested on the exams so you can make the most of your valuable study time Written by an experienced AP Calculus instructor the targeted review chapters prepare students for the test by only focusing on the topics tested on the AP Calculus AB BC exams Our easy to read format gives students a crash course in AP Calculus AB BC and covers functions graphs units derivatives integrals and polynomial approximations and series Expert Test taking Strategies Our author shares detailed question level strategies and explain the best way to answer AP questions you ll find on the exams By following this expert tips and advice you can boost your overall point score Take REA s Practice Exams After studying the material in the Crash Course go to the online REA Study Center and test what you ve learned Our free practice exams one online for both Calculus AB and Calculus BC features timed testing detailed explanations of answers and automatic scoring analysis Each exam is balanced to include every topic and type of question found on the actual AP exam so you know you re studying the smart way Whether you re cramming for the test at the last minute looking for extra review or want to study on your own in preparation for the exams this is the study guide every AP

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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## Decoding **2013 Ap Calculus Ab Response Scoring Guidelines**: Revealing the Captivating Potential of Verbal Expression

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