

**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

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

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

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

# Calculus Ab 2013 Response Scoring Guidelines

**Shelley Shaul, Joanna  
Christodoulou, Maria T. Sikkema-de  
Jong**



## Calculus Ab 2013 Response Scoring Guidelines:

**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, to 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.

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