

# 2012 AP CALCULUS BC

## MULTIPLE CHOICE CALCULATOR

The fuel consumption of a car, in miles per gallon (mpg), is modeled by  $f(s) = 6e^{\left(\frac{1}{20} - \frac{s^2}{2400}\right)}$ , where  $s$  is the speed of the car, in miles per hour. If the car is traveling at 50 miles per hour and its speed is changing at the rate of 20 miles/hour<sup>2</sup>, what is the rate at which its fuel consumption is changing?

- (A) 0.215 mpg per hour
- (B) 4.299 mpg per hour
- (C) 19.793 mpg per hour
- (D) 25.793 mpg per hour
- (E) 515.855 mpg per hour

$$s = 50 \frac{\text{mi}}{\text{hr}}$$

$$\frac{ds}{dt} = 20 \frac{\text{mi}}{\text{hr}^2}$$

$$\frac{dF}{dt} = ?$$

$$\frac{d}{dt} = \frac{d}{ds} \cdot \frac{ds}{dt}$$

$$\frac{d}{dt} \left( F = 6e^{\frac{s}{20} - \frac{s^2}{2400}} \right)$$

$$\frac{dF}{dt} = 6e^{\frac{s}{20} - \frac{s^2}{2400}} \left( \frac{1}{20} - \frac{s}{1200} \right) \frac{ds}{dt}$$

$$\frac{1s}{2400} = \frac{1200}{1200}$$



# 2012 Bc Calculus Multiple Choice Answers

**Steve Warner**



## 2012 Bc Calculus Multiple Choice Answers:

**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 **Cracking the AP Calculus BC Exam, 2020 Edition** The Princeton Review, 2019-10-22 EVERYTHING YOU NEED TO SCORE A PERFECT 5 Ace the AP Calculus BC Exam with this comprehensive study guide including 3 full length practice tests thorough content reviews targeted strategies for every question type and access to online extras Techniques That Actually Work Tried and true strategies to avoid traps and beat the test Tips for pacing yourself and guessing logically Essential tactics to help you work smarter not harder Everything You Need to Know to Help Achieve a High Score Comprehensive content review for all test topics Up to date information on the planned 2020 course changes via your online Student Tools Engaging activities to help you critically assess your progress Access to online drills study plans a handy list of formulas helpful pre college information and more Practice Your Way to Excellence 3 full length practice tests with detailed answer explanations Practice drills throughout each content review chapter Helpful reference guide of key calculus formulas and comprehensive drills available online **5 Steps to a 5 500 AP Calculus AB/BC Questions to Know by Test Day** Zachary Miner, Lena Folwaczny, 2012-03-12 Organized for easy reference and crucial practice coverage of all the essential topics presented as 500 AP style questions with detailed answer explanations 5 Steps to a 5 500 AP Calculus AB BC Questions to Know by Test Day is tailored to meet your study needs whether you've left it to the last minute to prepare or you have been studying for months You will benefit from going over the questions written to parallel the topic format and degree of difficulty of the questions contained in the AP exam accompanied by answers with comprehensive explanations Features 500 AP style questions and answers referenced to core AP materials Review explanations for right and wrong answers Additional online practice Close simulations of the real AP exams Updated material reflects the latest tests Online practice exercises **Beyond the Numbers** Edwin P. Christmann, 2011 Statistics is required coursework within most teacher certification programs Beyond the Numbers presents a nonthreatening practical

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