

**Multiple-Choice Questions for Calculus BC**  
**2018 Course Framework Alignment and Rationales**

Question 1

| Item | Learning Objectives                                                                                                                                                                                                                                                                                                  | Topic                                                      |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Q.1  | Part 4.B                                                                                                                                                                                                                                                                                                             | The Fundamental Theorem of Calculus and Definite Integrals |
| Q.1  | <p>Compute the integral involving using the basic power rule for antidifferentiation and correctly substituting the antiderivative resulting as follows:</p> $\int_0^1 (x^2)^2 dx = \int_0^1 x^4 dx = \frac{1}{5}x^5 \Big _0^1 = \frac{1}{5}(1)^5 - \frac{1}{5}(0)^5 = \frac{1}{5} - 0 = \frac{1}{5} = \frac{2}{10}$ |                                                            |
| Q.2  | <p>Interpret the integral representing the antiderivative and evaluate with the endpoints were substituted directly into the integral as follows:</p> $\int_0^1 x^2 dx = \frac{1}{3}x^3 \Big _0^1 = \frac{1}{3}(1)^3 - \frac{1}{3}(0)^3 = \frac{1}{3} - 0 = \frac{1}{3}$                                             |                                                            |
| Q.3  | <p>Interpret the integral representing the integral was differentiated rather than antiderivative technique:</p> $\int_0^1 x^2 dx = \frac{1}{3}x^3 \Big _0^1 = \frac{1}{3}(1)^3 - \frac{1}{3}(0)^3 = \frac{1}{3} - 0 = \frac{1}{3}$                                                                                  |                                                            |
| Q.4  | <p>Interpret the integral representing the definite or a were not divided by the area represented when the power rule for differentiation was applied incorrectly:</p> $\int_0^1 x^2 dx = \frac{1}{3}x^3 \Big _0^1 = \frac{1}{3}(1)^3 - \frac{1}{3}(0)^3 = \frac{1}{3} - 0 = \frac{1}{3}$                            |                                                            |

# 20multiple Choice Answers Ap Calc

**Xiang Xie**



## **20multiple Choice Answers Ap Calc:**

*acing AP Calculus AB and BC* , **AP Calculus AB Prep Plus 2020 & 2021** Kaplan Test Prep, 2020-02-04 Kaplan's AP Calculus AB Prep Plus 2020 2021 is revised to align with the latest exam. This edition features more than 1,000 practice questions in the book and online, complete explanations for every question, and a concise review of high-yield content to quickly build your skills and confidence. Test-like practice comes in 8 full-length exams, 11 pre-chapter quizzes, 11 post-chapter quizzes, and 22 online quizzes. Customizable study plans ensure that you make the most of the study time you have. We're so confident that AP Calculus AB Prep Plus offers the guidance you need that we guarantee it: after studying with our online resources and book, you'll score higher on the exam or you'll get your money back. To access your online resources, go to [kaptest.com](https://kaptest.com), moreonline, and follow the directions. You'll need your book handy to complete the process. The College Board has announced that the 2021 exam dates for AP Calculus AB will be May 4, May 24, or June 9, depending on the testing format. Each school will determine the testing format for their students. Expert Guidance: We know the test, our AP experts make sure our practice questions and study materials are true to the exam. We know students: every explanation is written to help you learn, and our tips on the exam structure and question formats will help you avoid surprises on Test Day. We invented test prep. Kaplan, [kaptest.com](https://kaptest.com) has been helping students for 80 years, and 9 out of 10 Kaplan students get into one or more of their top-choice colleges. **AP® Calculus AB & BC Crash Course 3rd Ed., Book + Online** J. Rosebush, Flavia Banu, 2021-03-12 AP Calculus AB BC Crash Course updated for today's 2025 2026 digital exam. A Higher Score in Less Time. REA's Crash Course quick review study guide is the top choice for AP students who want to make the most of their study time and earn a high score. Here's why more AP teachers and students turn to REA's AP Calculus Crash Course Targeted Focused Review Study Only: What You Need to Know. REA's new 3rd edition addresses all the latest 2025 2026 test revisions. We cover only the information tested on the exam so you can make the most of your valuable study time. Expert Test-taking Strategies and Advice. Authored by a team of AP Calculus teachers, the book gives you the tips and topics that matter most on exam day. Crash Course relies on the authors' extensive analysis of the test's structure and content. By following their advice, you can boost your score in every section of the test. Realistic Practice Questions, a Mini Test in the Book, a Full Length Exam Online. Are you ready for your exam? Try our focused practice set inside the book. Then take our full-length online practice exam, one each for Calculus AB BC, to ensure you're ready for test day. Please note: In the United States, this is a hybrid digital/paper exam. Students complete multiple-choice questions and view free-response questions in the Bluebook app. They handwrite their free-response answers in paper exam booklets that are returned for scoring. If you're cramming for the exam or looking for a concise course review, Crash Course is the study guide every AP student needs. About Our Authors: Joan Marie Rosebush teaches calculus courses at the University of Vermont. Ms. Rosebush has taught mathematics to elementary, middle school, high school, and college students. She taught AP Calculus via satellite television to high school students scattered

throughout Vermont Ms Rosebush earned her B A degree in elementary education with a concentration in mathematics at the University of New York in Cortland N Y She received her Master s Degree in education from Saint Michael s College Colchester Vermont Flavia Banu graduated from Queens College of the City University of New York with a B A in Pure Mathematics and an M A in Pure Mathematics in 1997 Ms Banu was an adjunct professor at Queens College where she taught Algebra and Calculus II Currently she teaches mathematics at Bayside High School in Bayside New York and coaches the math team for the school Her favorite course to teach is AP Calculus because it requires the most discipline rigor and creativity About Our Revisions Editor Stu Schwartz has been teaching mathematics since 1973 For 35 years he taught in the Wissahickon School District in Ambler Pennsylvania specializing in AP Calculus AB and BC and AP Statistics Mr Schwartz received his B S degree in Mathematics from Temple University Philadelphia Mr Schwartz was a 2002 recipient of the Presidential Award for Excellence in Mathematics Teaching and also won the 2007 Outstanding Educator of the Year Award for the Wissahickon School District Mr Schwartz s resource rich website [www.mastermathmentor.com](http://www.mastermathmentor.com) is geared toward helping educators teach AP Calculus AP Statistics and other math courses Mr Schwartz is always looking for ways to provide teachers with new and innovative teaching materials believing that it should be the goal of every math teacher not only to teach students mathematics but also to find joy and beauty in math as well *AP Calculus Premium, 2025: Prep Book with 12 Practice Tests + Comprehensive Review + Online Practice* Barron's Educational Series,David Bock,Dennis

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