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Article by Jane Newsom. Last Updated: Saturday, Jan 30, 2021. There are 2 calculus courses offered as part of the advanced placement program: Calculus AB and Calculus BC. AP Calculus AB is equivalent to a first semester College Calculus course, while AP Calculus BC is equivalent to both first and second semester college calculus. AP Calculus BC is an extension to AB, so much of the information in this list is applicable to the College AB course as well. As such, our list of the Best AP Calculus BC Books for 2020 contains some of the entries below. Prerequisites for AP Calculus BC Exam include the full 4 years of high school mathematics courses. We'll cover the class, test, and our picks for the best AP Calculus BC books, Flashcards, and Review Guides for test year 2022 below, but if you just can't wait, here's our short list: Best AP Calculus BC Books The AP Calculus BC exam review book category has several strong contenders which we've ranked for you above. Continue on for detailed information on each review book: Cracking the AP Calculus BC Exam Editor's Choice Pros: Full length practice tests (3) with access to online resources. Cons: Some explanations lack clarity. Best For: Supplementing course textbooks throughout the year or lead up to the test. Our Rating: 5 / 5 Princeton Review produces high quality review guides for most Advanced Placement exams, and AP Calculus BC is no exception. Consider this guide as a supplement for required course book, or as a stand alone study aid leading up to the exam date. Key features include: 3 practice tests (full length) with detailed explanations. Step by step walkthroughs of key formulas and sample questions. Questions drawn from up to date information on the current year tests. End of chapter practice drills with tips and tricks for exam preparation. List of essential tactics to help you focus your limited study time. The Princeton Review's Cracking the AP Calculus BC Exam is our pick for "best overall value" AP Calculus BC review book again this year. It comes packaged with a ton of valuable online and offline content, and will help you score your absolute best. A score of 5 is within your reach! AP Calculus AB & BC Crash Course Pros: Narrow focus is perfect for last minute or accelerated review. Cons: Some practice questions lack clarity or accuracy. Best For: Last minute review leading up to the exam. Our Rating: 4.5 / 5 AP Calculus AB & BC Crash Course is just that, an accelerated crash course in Calculus. The review book consists of extensive practice tests with full answer keys, as well as tips and tricks. Full list of key features: 2 Full length practice tests online. Just the information necessary for the test, without all the fluff. Expert test taking strategies covering both the multiple choice and free response sections. Content and course layout focused entirely on the exam. While this isn't the most well rounded guide, it's narrow focus on test content and strategies can be extremely useful as a list minute review leading up to the test. If you're looking for a resource to complement your required course textbooks throughout the year, consider one of the other books on this list. However, for the right audience, this book can't be beat! 5 Steps to A 5: AP Calculus BC Pros: 3 practice tests and a free study planner app. Cons: Some small errors on answer / explanation keys. Best For: Supplemental review throughout the course. Our Rating: 4.5 / 5 5 Steps To A 5: AP Calculus BC by William Ma, is another fine entry and nearly took the top spot of best AP Calculus BC review book. In addition to 3 full length practice tests, it has a great overview of the format, and an appendix of common formulas and theorems. Three full length practice exams with thorough answer explanations. Complete overview of the format. Appendix of common formulas. Free study planner app. The 5 Steps To A 5 series of review books are typically high up on our review book ranking lists, and this entry is no exception. Between the printed book and the huge amount of online resources, this review book is an all around great deal. The study planning app in particular is great for helping you focus your limited review time. Barron's AP Calculus Pros: Multiple practice tests and online resources. Cons: Some people find the practice questions to be overly difficult (but you may see this as a plus). Best For: Use in addition to required course textbook year long and leading up to the exam. Our Rating: 4 / 5 The Barron's AP Calculus review guide is suitable for students studying for either version of the exam. As with the other books on this list, the guide is jam packed with both printed materials and access to online content. The full list of features includes: 4 full length Calculus AB + 4 Calculus BC practice tests. Graphing calculator review with tips. Detailed review covering topics for both AB and BC. Barron's AP Calculus review is another solid guidebook if you're looking to compliment other works on this list or your course textbook. They do a good job of presenting the material, and provide a ton of useful practice tests to help you assess your readiness for the real thing. AP Calculus BC Lecture Notes Pros: Well organized and easy to follow review notes covering all of the material. Cons: No quiz or practice tests included, no online resources. Best For: Supplementing other review books. Our Rating: 4 / 5 This entry is different from the other review books in this list. Rather than a structured guide with practice tests, it's a set of lecture notes with examples and explanations. The book is well done and well reviewed, but we recommend it as a supplement to another prep book, rather than using it as your only resource. Features included in the book: Full slides and review of all Calculus BC curriculum topics. List of formulas and theorems required for the test. Concise and accurate explanations of all example problems. Even though this review book lacks some of the extra benefits of the other guidebooks, we strongly recommend it as a supplement to your required textbooks. The information is presented in an easy to follow fashion that helps it all click for some students and serves as reinforcement for others. Again, if you're in crunch mode leading up to the exam you might be better off with one of the other recommendations. Best AP Calculus BC Flashcards In addition to the excellent books mentioned above, AP Calculus BC students will see significant benefits in prepping for the exam using flashcards. Our top picks for Best AP Calculus BC Flashcards are outlined below. Barron's AP Calculus Flash Cards Editor's Choice Pros: In depth questions and explanations covering all major topics. Cons: No digital format option. Our Rating: 4 / 5 Barron's AP Calculus BC Flash Cards are a set of 300 physical flashcards covering Calculus BC topics including formulas, functions, graphs, derivatives, and more. These flashcards pair well with the Barron's AP Calculus book listed above, but will work with any of the other resources (or on their own as a supplement to your course textbook). Key features include: Over 300 cards covering AP Calculus BC topics. The Barron's AP Calculus Flash Cards help ease the task of repetition memorization, and make your final preparatio much easier. The cards are relatively in-depth rather than simple multiple choice, so they can take a while to work through, but this helps in the long run. A full Course Description for AP Calculus BC is available from collegeboard.org. The AP Calculus BC course is comprised of all of the material covering the 3 main concepts included in AB, plus the concept of Series, which is added for BC. Each of the main concepts has their own set of learning objectives and essential knowledge: Limits [Included in AB] The concept of a limit can be used to describe the behavior of a function. Students learn to express and interpret limits symbolically. Continuity is a key property of a function that can be expressed using limits. Derivatives [Included in AB] A function's derivative can be used to understand the behavior of a function. The derivative of a function has many interpretations and applications. The Mean Value Theorem connects the behavior of a differentiable function over an interval to a derivative at a point on that interval. Integrals and the Fundamental Theorem of Calculus [Included in AB] Antidifferentiation is the inverse process of differentiation. The definite integral of a function over an interval can be calculated using a variety of strategies. The Fundamental Theorem of Calculus connects differentiation and integration. The definite integral of a function has many interpretations and applications. Series The sum of an infinite number of real numbers may converge. A function can be represented by an associated power series over the interval of convergence. As with AP Calculus AB, the structure and organization of the AP Calculus BC course is variable and depends on instructor preference. In general, the curriculum is taught in the order listed above, with key concepts from earlier units feeding into the later ones. In each unit, a healthy mix of instruction, interactive questioning, and practical application through problem solving should be expected. Students taking the AP Calculus BC Exam are responsible for demonstrating knowledge of each of the above mentioned learning objectives through multiple choice and free response problem solving. The AP Calculus BC exam requires extensive use of a graphing calculator, and students are required to provide their own (see the collegeboard calculator policy). The AP Calculus BC test is comprised of 2 sections each with 2 parts. Each of the 2 sections make up 50% of the overall score. The Multiple Choice section: 1 hour and 45 minutes long and consists of 45 multiple choice questions. It accounts for 50% of the overall AP Calculus BC exam score. Part A is 30 questions, 60 minutes long, and a graphing calculator is not permitted. Part B is 15 questions, 45 minutes long, and a graphing calculator is required. The Free Response section: 1 hour and 30 minutes long and contains 6 questions. It accounts for 50% of the overall exam score. Part A is 2 questions, 30 minutes long, and a graphing calculator is required. Part B is 3 questions, 60 minutes long, and a graphing calculator is not permitted. Though topics in algebra, geometry, pre-calculus, etc are not explicitly assessed, some concepts from them will be incorporated in order to successfully and accurately answer the calculus questions posed. In the free response section, students are expected to show their work in order to receive credit. In the AP Calculus BC exam, you are given a secondary score on the AB portion of the test (which makes up about 60% of the exam material). This lets colleges evaluate your understanding of concepts from the AB portion of the test independently from the BC portion. For exam dates, refer to The College Board AP Calendar. Wrapping Up AP Calculus represents the culmination of over 4 years of secondary math courses, and any student completing it should feel a huge sense of accomplishment. It's a tough course, and the assigned course book isn't always enough to prepare you well for the exam. Whether a particular book is right for your unique circumstances depends on a variety of factors we've tried to account for. To recap our recommendations: Top Overall Recommendation Cracking the AP Calculus BC Exam Top Pick For Course Supplement Cracking the AP Calculus BC Exam Top Pick For Last Minute Prep AP Calculus AB & BC Crash Course Top Pick For Flashcards Barron's AP Calculus Flash Cards Our top overall pick and recommendation for students interested in supplementing their assigned course book is Cracking the AP Calculus BC Exam, from Princeton Review. It's a comprehensive books crammed with extra goodies, and does a great job illustrating concepts. AP Calculus AB & BC crash course is the best overall pick for students who are short on time before the exam. It does a good job of covering just the material and concepts that are most critical to the exam, so you can make the most of your study time. Finally, flashcards can be a huge aide for last minute review and memorization of formulas, etc and can compliment a review book quite well. Our top pick in this area is the Barron's AP Calculus Flash Cards set. Whatever your circumstance, supplemental study and review books are a key part of ensuring success on the exam. We've listed some of the best AP Calculus BC resources available in hopes that you'll choose the perfect review book for you and nail that 5. Good luck, and study hard! Sources and Further Reading

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