

2017 AP[®] CALCULUS AB FREE-RESPONSE QUESTIONS

3. The function f is differentiable on the closed interval $[-6, 5]$ and satisfies $f(-2) = 7$. The graph of f' , the derivative of f , consists of a semicircle and three line segments, as shown in the figure above.

- (c) Find the absolute minimum value of f on the closed interval $[-6, 5]$. Justify your answer.

Candidates : $x = -6$, $x = 5$, $x = -2$, $x = 2$

Endpoints Critical Numbers

From A: $f(-6) = 3$

From A: $f(5) = 10 - 2\pi$

Given : $f(-2) = 7$

$$f(2) = 7 + \int_{-2}^2 f'(x) dx = 7 - \frac{1}{2} \pi (2)^2 = 7 - 2\pi$$

The absolute minimum value for $f(x)$ on $[-6, 5]$ is $\boxed{7 - 2\pi}$.



Ap Calculus 2012 Answers

William Ma



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A-level Mathematics Complete Yearly Solutions 2012 (Yellowreef) Thomas Bond,Chris Hughes,2013-11-16 completely covers all question types since 1996 exposes all trick questions makes available full set of step by step solution approaches provides examination reports revealing common mistakes wrong habits easy to implement check back procedure gives short side reading notes advanced trade book Complete edition eBook only **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 *5 Steps to a 5 AP Statistics, 2012-2013 Edition* Duane C. Hinders,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 Overview of Statistics Basic Vocabulary One Variable Data Analysis Two Variable Data Analysis Design of a Study Sampling Surveys and Experiments Random Variables and Probability Binomial Distributions Geometric Distributions and Sampling Distributions Confidence Intervals and Introduction to Inference Inference for Means and Proportions Inference for Regression [On the Move to Meaningful Internet Systems: OTM 2012](#) Robert Meersman,Herve Panetto,Tharam Dillon,Stefanie Rinderle-Ma,Peter Dadam,Xiaofang Zhou,Siani Pearson,Alois Ferscha,Sonia Bergamaschi,Isabel F Cruz,2013-01-17 The two volume set LNCS 7565 and 7566 constitutes the refereed proceedings of three confederated international conferences Cooperative Information Systems CoopIS 2012 Distributed Objects and

Applications Secure Virtual Infrastructures DOA SVI 2012 and Ontologies DataBases and Applications of SEMantics ODBASE 2012 held as part of OTM 2012 in September 2012 in Rome Italy The 53 revised full papers presented were carefully reviewed and selected from a total of 169 submissions The 31 full papers included in the second volume constitute the proceedings of DOA SVI 2012 with 10 full papers organized in topical sections on privacy in the cloud resource management and assurance context compliance and attack and ODBASE 2012 with 21 full papers organized in topical sections on using ontologies and semantics applying probalistic techniques to semantic information exploiting and querying semantic information and managing and storing semantic information *Never Send a Human to Do a Machine's Job* Yong

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ENGINEERING MATHEMATICS DWIVEDI, A. P. ,2015-04-14 This book is designed to equip the students with an in depth and single source coverage of the complete spectrum of Engineering Mathematics I ranging from Differential Calculus I Differential Calculus II Linear Algebra Multiple Integrals to Vector Calculus The book which will prove to be an epitome of learning the concepts of

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