

2008 AP[®] CALCULUS AB FREE-RESPONSE QUESTIONS**CALCULUS AB
SECTION II, Part A
Time—45 minutes
Number of problems—3**

A graphing calculator is required for some problems or parts of problems.



1. Let R be the region bounded by the graphs of $y = \sin(\pi x)$ and $y = x^3 - 4x$, as shown in the figure above.
 - (a) Find the area of R .
 - (b) The horizontal line $y = -2$ splits the region R into two parts. Write, but do not evaluate, an integral expression for the area of the part of R that is below this horizontal line.
 - (c) The region R is the base of a solid. For this solid, each cross section perpendicular to the x -axis is a square. Find the volume of this solid.
 - (d) The region R models the surface of a small pond. At all points in R at a distance x from the y -axis, the depth of the water is given by $h(x) = 3 - x$. Find the volume of water in the pond.

2008 Ap Calc Answers

Duane C. Hinders



2008 Ap Calc Answers:

This book delves into 2008 Ap Calc Answers. 2008 Ap Calc Answers is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into 2008 Ap Calc Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to 2008 Ap Calc Answers
- Chapter 2: Essential Elements of 2008 Ap Calc Answers
- Chapter 3: 2008 Ap Calc Answers in Everyday Life
- Chapter 4: 2008 Ap Calc Answers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of 2008 Ap Calc Answers. This chapter will explore what 2008 Ap Calc Answers is, why 2008 Ap Calc Answers is vital, and how to effectively learn about 2008 Ap Calc Answers.
3. In chapter 2, the author will delve into the foundational concepts of 2008 Ap Calc Answers. This chapter will elucidate the essential principles that must be understood to grasp 2008 Ap Calc Answers in its entirety.
4. In chapter 3, this book will examine the practical applications of 2008 Ap Calc Answers in daily life. The third chapter will showcase real-world examples of how 2008 Ap Calc Answers can be effectively utilized in everyday scenarios.
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6. In chapter 5, the author will draw a conclusion about 2008 Ap Calc Answers. This chapter will summarize the key points that have been discussed throughout the book.

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