

Name: \_\_\_\_\_

1. (30 points) The function  $f$  below is piecewise-wise defined as:

$$f(x) = \begin{cases} 3x + 5, & x < 2 \\ 3, & x = 2 \\ x^2 + 7, & x > 2 \end{cases}$$

- a) Find  $\lim_{x \rightarrow 2^-} f(x)$  and  $\lim_{x \rightarrow 2^+} f(x)$  and decide if the limit exist as  $x$  approaches 2.  
b) Explain briefly whether  $f$  is continuous at the point 2.
2. (30 points) a) Find the center and radius of the circle given by  
 $4x^2 + 4y^2 + 24x - 32y = 0$   
b) Find the equation of the straight line that is perpendicular to the line  $2x + 3y = 4$  and passes through  $(4, 0)$ .
3. (30 points) The following functions are one-to-one, find their inverses  
a)  $f(x) = \sqrt{2x - 3}$   
b)  $f(x) = 3x^3 + 7$
4. (30 points) a) Using the limit definition, find the derivative of  $f(x) = \sqrt{x + 3}$   
b) Use the sum, difference and constant multiple rule to find the derivative of  
(i)  $f(x) = \sqrt[3]{x^2} + \frac{2}{x^2}$   
(ii)  $f(x) = 7 - 2x + \frac{1}{2}x^4$

5. (30 points) Evaluate the following limits *analytically*

a)  $\lim_{x \rightarrow 1} \frac{x^2 + x - 2}{2x - 2}$

b)  $\lim_{x \rightarrow 5} \frac{x^2 - 25}{2x - 10}$

c) (bonus)  $\lim_{x \rightarrow -5} \frac{32x^3 + 4000}{x + 5}$

# Math 110 Penn State Exams

**RS Peters**



## **Math 110 Penn State Exams:**

The book delves into Math 110 Penn State Exams. Math 110 Penn State Exams is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Math 110 Penn State Exams, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Math 110 Penn State Exams
    - Chapter 2: Essential Elements of Math 110 Penn State Exams
    - Chapter 3: Math 110 Penn State Exams in Everyday Life
    - Chapter 4: Math 110 Penn State Exams in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of Math 110 Penn State Exams. This chapter will explore what Math 110 Penn State Exams is, why Math 110 Penn State Exams is vital, and how to effectively learn about Math 110 Penn State Exams.
  3. In chapter 2, the author will delve into the foundational concepts of Math 110 Penn State Exams. This chapter will elucidate the essential principles that need to be understood to grasp Math 110 Penn State Exams in its entirety.
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  6. In chapter 5, this book will draw a conclusion about Math 110 Penn State Exams. The final chapter will summarize the key points that have been discussed throughout the book.
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## Table of Contents Math 110 Penn State Exams

1. Understanding the eBook Math 110 Penn State Exams
  - The Rise of Digital Reading Math 110 Penn State Exams
  - Advantages of eBooks Over Traditional Books
2. Identifying Math 110 Penn State Exams
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Math 110 Penn State Exams
  - User-Friendly Interface
4. Exploring eBook Recommendations from Math 110 Penn State Exams
  - Personalized Recommendations
  - Math 110 Penn State Exams User Reviews and Ratings
  - Math 110 Penn State Exams and Bestseller Lists
5. Accessing Math 110 Penn State Exams Free and Paid eBooks
  - Math 110 Penn State Exams Public Domain eBooks
  - Math 110 Penn State Exams eBook Subscription Services
  - Math 110 Penn State Exams Budget-Friendly Options
6. Navigating Math 110 Penn State Exams eBook Formats
  - ePub, PDF, MOBI, and More
  - Math 110 Penn State Exams Compatibility with Devices
  - Math 110 Penn State Exams Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Math 110 Penn State Exams
  - Highlighting and Note-Taking Math 110 Penn State Exams
  - Interactive Elements Math 110 Penn State Exams
8. Staying Engaged with Math 110 Penn State Exams

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Math 110 Penn State Exams
9. Balancing eBooks and Physical Books Math 110 Penn State Exams
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Math 110 Penn State Exams
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Math 110 Penn State Exams
- Setting Reading Goals Math 110 Penn State Exams
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Math 110 Penn State Exams
- Fact-Checking eBook Content of Math 110 Penn State Exams
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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