

Math 291 Homework 5

Material to memorize

1. Limits: $\lim_{z \rightarrow z_0} f(z) = L$ if $f(z)$ approaches L as z approaches z_0 .
2. A function is continuous if: $\lim_{z \rightarrow z_0} f(z) = f(z_0)$.
3. A function is differentiable if $\lim_{\Delta z \rightarrow 0} \frac{f(z+\Delta z) - f(z)}{\Delta z}$ exists.
4. Cauchy-riemann equations: $u_x = v_y$ and $v_x = -u_y$

Problems

1. Rewrite the following functions in terms of their polar component parts

(a) $f(z) = z^2 + 2z$

(b) $f(z) = \operatorname{Re}(z)\operatorname{Im}(z)$

2. Compute the following limits,

(a) $\lim_{z \rightarrow 2} \frac{|z|-2}{\operatorname{Re}(z)}$

(b) $\lim_{z \rightarrow 2-i} \frac{z^2 - 18z + 82}{z - 2 + i}$

3. Determine where the following functions are continuous.

(a) $f(z) = \begin{cases} \sqrt{|z|}e^{i\frac{\operatorname{Arg}(z)}{4}} & \operatorname{Arg}(z) \geq 0 \\ \sqrt[3]{|z|}e^{i\frac{\operatorname{Arg}(z)}{4}} & \operatorname{Arg}(z) < 0 \end{cases}$

(b) $f(z) = \frac{\operatorname{Re}(z)}{\operatorname{Im}(z)}$

4. Use the definition of the complex derivative to show that $\operatorname{Re}(2z)$ is nowhere differentiable.

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Table of Contents Math 291 Solution Manual

1. Understanding the eBook Math 291 Solution Manual
 - The Rise of Digital Reading Math 291 Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Math 291 Solution Manual
 - 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 291 Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Math 291 Solution Manual
 - Personalized Recommendations
 - Math 291 Solution Manual User Reviews and Ratings

- Math 291 Solution Manual and Bestseller Lists
- 5. Accessing Math 291 Solution Manual Free and Paid eBooks
 - Math 291 Solution Manual Public Domain eBooks
 - Math 291 Solution Manual eBook Subscription Services
 - Math 291 Solution Manual Budget-Friendly Options
- 6. Navigating Math 291 Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Math 291 Solution Manual Compatibility with Devices
 - Math 291 Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Math 291 Solution Manual
 - Highlighting and Note-Taking Math 291 Solution Manual
 - Interactive Elements Math 291 Solution Manual
- 8. Staying Engaged with Math 291 Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Math 291 Solution Manual
- 9. Balancing eBooks and Physical Books Math 291 Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Math 291 Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Math 291 Solution Manual
 - Setting Reading Goals Math 291 Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Math 291 Solution Manual
 - Fact-Checking eBook Content of Math 291 Solution Manual
 - 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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