

Tutorial Sheet: Multivariable Calculus

1. Examine if the limits as $(x, y) \rightarrow (0, 0)$ exist?

$$(a) \begin{cases} \frac{x^2 y^2}{x^2 + y^2} & x \neq y \\ 0 & x = y \end{cases} \quad (b) \quad xy \left(\frac{x^2 - y^2}{x^2 + y^2} \right) \quad (c) \begin{cases} x \sin \frac{1}{x} + y \sin \frac{1}{y} & xy \neq 0 \\ 0 & xy = 0 \end{cases}$$

$$(d) \frac{\sin(xy)}{x^2 + y^2}$$

2. Examine the continuity of the following functions

$$(a) \begin{cases} \frac{xy^2}{x^2 + y^2} & (x, y) \neq (0, 0) \\ 0 & \text{otherwise} \end{cases} \quad (b) \begin{cases} x^2 + y^2, & x^2 + y^2 \leq 1 \\ 0, & \text{otherwise} \end{cases}$$

$$(c) \begin{cases} \frac{\sin^2(x - y)}{|x| + |y|} & (x, y) \neq (0, 0) \\ 0 & \text{otherwise} \end{cases} \quad (d) \begin{cases} \frac{x^2 y^2}{x^2 y^2 + (x - y)^2} & (x, y) \neq (0, 0) \\ 0 & \text{otherwise} \end{cases}$$

3. Discuss the differentiability of the following functions at $(0, 0)$

$$(a) f(x, y) = \begin{cases} x \sin \frac{1}{x} + y \sin \frac{1}{y} & xy \neq 0 \\ \sin y & xy = 0 \end{cases} \quad (b) \begin{cases} \frac{-\sqrt{xy}}{\sqrt{x^2 + y^2}} & x^2 + y^2 \neq 0 \\ 0 & x = y = 0 \end{cases}$$

$$(c) \begin{cases} \frac{x^2 y^2}{x^2 + y^2} & x^2 + y^2 \neq 0 \\ 0 & x = 0, y = 0 \end{cases}$$

4. Let $f(x, y) = \frac{1}{|y|} \sqrt{x^2 + y^2}$, $y \neq 0$ and $f(x, 0) = 0$. Show that f has all directional derivatives at $(0, 0)$ but it is not differentiable at $(0, 0)$.

5. Let $f(x, y) = \left| |x| - |y| \right| - |x| - |y|$. Is f continuous at $(0, 0)$? Which directional derivatives exist at $(0, 0)$? Is f differentiable at $(0, 0)$? Give reasons.

Tutorial Calculus Multivariable

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Table of Contents Tutorial Calculus Multivariable

1. Understanding the eBook Tutorial Calculus Multivariable
 - The Rise of Digital Reading Tutorial Calculus Multivariable
 - Advantages of eBooks Over Traditional Books
2. Identifying Tutorial Calculus Multivariable
 - 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 Tutorial Calculus Multivariable
 - User-Friendly Interface
4. Exploring eBook Recommendations from Tutorial Calculus Multivariable
 - Personalized Recommendations
 - Tutorial Calculus Multivariable User Reviews and Ratings
 - Tutorial Calculus Multivariable and Bestseller Lists
5. Accessing Tutorial Calculus Multivariable Free and Paid eBooks
 - Tutorial Calculus Multivariable Public Domain eBooks
 - Tutorial Calculus Multivariable eBook Subscription Services
 - Tutorial Calculus Multivariable Budget-Friendly Options
6. Navigating Tutorial Calculus Multivariable eBook Formats

- ePub, PDF, MOBI, and More
 - Tutorial Calculus Multivariable Compatibility with Devices
 - Tutorial Calculus Multivariable Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Tutorial Calculus Multivariable
 - Highlighting and Note-Taking Tutorial Calculus Multivariable
 - Interactive Elements Tutorial Calculus Multivariable
 8. Staying Engaged with Tutorial Calculus Multivariable
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Tutorial Calculus Multivariable
 9. Balancing eBooks and Physical Books Tutorial Calculus Multivariable
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Tutorial Calculus Multivariable
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Tutorial Calculus Multivariable
 - Setting Reading Goals Tutorial Calculus Multivariable
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Tutorial Calculus Multivariable
 - Fact-Checking eBook Content of Tutorial Calculus Multivariable
 - 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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