

HOMEWORK 3 SOLUTIONS

All questions are from Vector Calculus by Marsden and Tromba

Question 1: 2.2.12 Compute the following limits if they exist:

(a) $\lim_{x \rightarrow 0} \frac{\sin 2x - 2x}{x^3}$.

(b) $\lim_{(x,y) \rightarrow (0,0)} \frac{\sin 2x - 2x + y}{x^3 + y}$.

(c) $\lim_{(x,y,z) \rightarrow (0,0,0)} \frac{2x^2y \cos x}{x^2 + y^2}$.

Solution:

(a) By L'Hopital's rule,

$$\begin{aligned} \lim_{x \rightarrow 0} \frac{\sin 2x - 2x}{x^3} &= \lim_{x \rightarrow 0} \frac{2 \cos 2x - 2}{3x^2} \\ &= \lim_{x \rightarrow 0} \frac{-4 \sin 2x}{6x} \quad (\text{again by L'Hopital}) \\ &= -\left(\frac{4}{3}\right) \lim_{x \rightarrow 0} \frac{\sin 2x}{2x} = -\frac{4}{3} \end{aligned}$$

since

$$\lim_{\theta \rightarrow 0} \frac{\sin \theta}{\theta} = 1.$$

(b) From (a), for $y = 0$

$$\frac{\sin 2x - 2x}{x^3} \text{ approaches } -\frac{4}{3}$$

as $(x, 0)$ approaches $(0, 0)$. Setting $y = 2x$, we see that

$$\frac{\sin 2x - 2x + y}{x^3 + y} = \frac{\sin 2x}{x^3 + 2x} = \frac{\sin 2x}{2x} \left(\frac{2}{x^2 + 2} \right)$$

and hence

$$\lim_{(x,2x) \rightarrow 0} \frac{\sin 2x - 2x + y}{x^3 + y} = \lim_{x \rightarrow 0} \frac{\sin 2x}{2x} \cdot \frac{2}{x^2 + 2} = 1 \cdot 1 = 1.$$

Therefore,

$$\frac{\sin 2x - 2x + y}{x^3 + y}$$

has two different limits along two different rays approaching the origin $(0, 0)$, and consequently

$$\lim_{(x,y) \rightarrow (0,0)} \frac{\sin 2x - 2x + y}{x^3 + y}$$

does not exist.

Multivariable Calculus Marsden Tromba Solutions Manual

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Heil,Maurice D. Weir**

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Vector Calculus Study Guide & Solutions Manual Karen Pao, Frederick Soon, 2003-08-22 Includes solutions to selected exercises and study hints **The American Mathematical Monthly**, 1981 Includes articles as well as notes and other features about mathematics and the profession **Methods of Applied Mathematics with a MATLAB Overview** Jon H. Davis, 2012-12-06 Broadly organized around the applications of Fourier analysis Methods of Applied Mathematics with a MATLAB Overview covers both classical applications in partial differential equations and boundary value problems as well as the concepts and methods associated to the Laplace Fourier and discrete transforms Transform inversion problems are also examined along with the necessary background in complex variables A final chapter treats wavelets short time Fourier analysis and geometrically based transforms The computer program MATLAB is emphasized throughout and an introduction to MATLAB is provided in an appendix Rich in examples illustrations and exercises of varying difficulty this text can be used for a one or two semester course and is ideal for students in pure and applied mathematics physics and engineering

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Table of Contents Multivariable Calculus Marsden Tromba Solutions Manual

1. Understanding the eBook Multivariable Calculus Marsden Tromba Solutions Manual
 - The Rise of Digital Reading Multivariable Calculus Marsden Tromba Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Multivariable Calculus Marsden Tromba Solutions 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 Multivariable Calculus Marsden Tromba Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Multivariable Calculus Marsden Tromba Solutions Manual
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 - Multivariable Calculus Marsden Tromba Solutions Manual User Reviews and Ratings
 - Multivariable Calculus Marsden Tromba Solutions Manual and Bestseller Lists
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- Multivariable Calculus Marsden Tromba Solutions Manual Compatibility with Devices
- Multivariable Calculus Marsden Tromba Solutions Manual Enhanced eBook Features

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- Adjustable Fonts and Text Sizes of Multivariable Calculus Marsden Tromba Solutions Manual
- Highlighting and Note-Taking Multivariable Calculus Marsden Tromba Solutions Manual
- Interactive Elements Multivariable Calculus Marsden Tromba Solutions Manual

8. Staying Engaged with Multivariable Calculus Marsden Tromba Solutions Manual

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Multivariable Calculus Marsden Tromba Solutions Manual

9. Balancing eBooks and Physical Books Multivariable Calculus Marsden Tromba Solutions Manual

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Multivariable Calculus Marsden Tromba Solutions Manual

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Multivariable Calculus Marsden Tromba Solutions Manual

- Setting Reading Goals Multivariable Calculus Marsden Tromba Solutions Manual
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Multivariable Calculus Marsden Tromba Solutions Manual

- Fact-Checking eBook Content of Multivariable Calculus Marsden Tromba Solutions 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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