

If  $f_1 = f_2 = f_3$ , then

AFO  $\rightarrow y = mx^2$

$$\lim_{(x,y) \rightarrow (0,0)} f(x,y) = \lim_{x \rightarrow 0} f(x, mx^2) = f_y$$

If  $f_1 = f_2 = f_3 \neq f_4$ , then limit does not exist

||y we take infinite paths  $y = mx^n, n \in \mathbb{R}$ .  $\frac{2}{3} \quad \frac{3}{4}$   
 If in all these paths the limit is same  $y = ax^{5/6}$   
 then we say that the limit exists

$\rightarrow$  check whether the limit of the following functions exist or not.

$$1) \lim_{(x,y) \rightarrow (0,0)} \frac{x^2 y}{x^4 + y^2}$$

$$f_1 = \lim_{x \rightarrow 0} \left[ \lim_{y \rightarrow 0} \frac{x^2 y}{x^4 + y^2} \right] = \lim_{x \rightarrow 0} [0] = 0$$

$$f_2 = \lim_{y \rightarrow 0} \left[ \lim_{x \rightarrow 0} \frac{x^2 y}{x^4 + y^2} \right] = \lim_{y \rightarrow 0} [0] = 0$$

Along  $y = mx$   $f_3 = \lim_{(x,y) \rightarrow (0,0)} \frac{x^2 y}{x^4 + y^2} = \lim_{x \rightarrow 0} \frac{x^2(mx)}{x^4 + m^2 x^2} = \frac{m x^3}{x^2(1+m^2)} = 0$

Along  $y = mx^2$   $f_4 = \lim_{(x,y) \rightarrow (0,0)} \frac{x^2 y}{x^4 + y^2} = \lim_{x \rightarrow 0} \frac{x^2 m x^2}{x^4 + m^2 x^4} = \lim_{x \rightarrow 0} \frac{m x^4}{x^4(1+m^2)} = \frac{m}{1+m^2}$

$m=1, y=x^2 \rightarrow \frac{1}{1+1} = \frac{1}{2}$   
 $m=2, y=2x^2 \rightarrow \frac{1}{1+4} = \frac{1}{5}$

Along  $y = x^2 \rightarrow \frac{1}{2}$   
 $y = 2x^2 \rightarrow \frac{1}{5}$

for different values of  $m$  we get different limits  
 Hence the function does not have limit at  $(0,0)$ .

2)  $\lim_{(x,y) \rightarrow (0,0)} \frac{y^2 - x^2}{x^2 + y^2} \rightarrow$  limit does not exist

$$\lim_{x \rightarrow 0} \frac{x^3 - (mx^3)^3}{x^2 + (mx^3)^2} = \lim_{x \rightarrow 0} \frac{x^3 - m^3 x^9}{x^2 + m^2 x^6} = \lim_{x \rightarrow 0} \frac{x(1 - m^3 x^6)}{1 + m^2 x^4} = 0$$

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

# Multivariable Calculus Notes

**Joel Segel**



## **Multivariable Calculus Notes:**

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**Linear Algebra and Differential Equations** Alexander Givental,2001 The material presented in this book corresponds

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*Mathematical Computing* David Betounes,Mylan Redfern,2012-12-06 This book is designed to teach introductory computer programming using Maple It aims to infuse more mathematically oriented programming exercises and problems than those found in traditional programming courses while reinforcing and applying concepts and techniques of calculus All the important basic elements of computer programming can be easily learned within the interactive and user friendly environment of a Computer Algebra System CAS such as Maple Most chapters feature case studies that provide greater depth on some topics and also serve to illustrate the methodology of analysis and design of code for more complex problems This book is directed at undergraduates in the fields of math science or secondary education Teach Students How to Learn Saundra Yancy McGuire,2023-07-03 Co published with NISOD Miriam a freshman Calculus student at Louisiana State University made 37 5% on her first exam but 83% and 93% on the next two Matt a first year General Chemistry student at the University of Utah scored 65% and 55% on his first two exams and 95% on his third These are representative of thousands of students who decisively improved their grades by acting on the advice described in this book What is preventing your students from performing according to expectations Saundra McGuire offers a simple but profound answer If you teach students how to learn and give them simple straightforward strategies to use they can significantly increase their learning

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## **Table of Contents Multivariable Calculus Notes**

1. Understanding the eBook Multivariable Calculus Notes
  - The Rise of Digital Reading Multivariable Calculus Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Multivariable Calculus Notes
  - 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 Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Multivariable Calculus Notes
  - Personalized Recommendations
  - Multivariable Calculus Notes User Reviews and Ratings
  - Multivariable Calculus Notes and Bestseller Lists
5. Accessing Multivariable Calculus Notes Free and Paid eBooks

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