

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

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

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

Multivariable Calculus Notes

O García



Multivariable Calculus Notes:

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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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