

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

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

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

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

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

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

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

# Multivariable Calculus Notes

**Rachel S Tattersall**



## **Multivariable Calculus Notes:**

**Multivariable Calculus** ALEXEY. KRYUKOV,2017-09-05 This textbook is a set of lecture notes and practical exercises in Multivariable Calculus written for university students It contains all essential definitions and results typically covered in a third semester calculus course presented in a streamlined format The textbook is based on the learning principle of moving from elementary to complex Each topic begins with a straight to the point lecture introducing the main material followed by a set of carefully selected problems which develop an understanding of the material and the ability to use it A separate Solutions Manual complements this minimal yet complete set of resources needed for mastery of Multivariable Calculus by a motivated student

*Multivariable Calculus* ALEXEY. KRYUKOV,K. Berg,2017-09-05 This Solutions Manual contains solutions to all typical problems in the textbook Multivariable Calculus Lecture Notes ISBN 13 978 1976146374 This step by step solution guide is a great compliment to the Lecture Notes and allows the motivated student to truly master problem solving techniques in Multivariable Calculus in a fast and efficient way

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

to a semester long course Linear Algebra and Differential Equations taught to sophomore students at UC Berkeley In contrast with typical undergraduate texts the book offers a unifying point of view on the subject namely that linear algebra solves several clearly posed classification problems about such geometric objects as quadratic forms and linear transformations This attractive viewpoint on the classical theory agrees well with modern tendencies in advanced mathematics and is shared by many research mathematicians However the idea of classification seldom finds its way to basic programs in mathematics and is usually unfamiliar to undergraduates To meet the challenge the book first guides the reader through the entire agenda of linear algebra in the elementary environment of two dimensional geometry and prior to spelling out the general idea and employing it in higher dimensions shows how it works in applications such as linear ODE systems or stability of equilibria Appropriate as a text for regular junior and honors sophomore level college classes the book is accessible to high school students familiar with basic calculus and can also be useful to engineering graduate students

**Calculus 3 Lecture Notes Workbook** Blake Thornton,2023-08-03 This workbook covers the third semester of a traditional calculus course Multivariable Calculus The workbook follows the chapters in Stewart s Calculus and can be used as a supplement to Stewart or as a stand alone workbook Topics covered include lines planes graphing curves partial derivatives multiple integrals change of variables vector fields and vector calculus **Recountings** Joel Segel,2009-01-03 This book traces the history of the MIT Department of Mathematics one of the most important mathematics departments in the world through candid in depth lively conversations with a select and diverse group of its senior members The process reveals much about the motivation path and impact of research mathematicians in a society that owes so mu

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