

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

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

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

Multivariable Calculus Notes

R Barnett



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the motivation path and impact of research mathematicians in a society that owes so much to them. **Multivariable Calculus**

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Teach Yourself How to Learn Sandra Yancy McGuire, 2023-07-03 Following up on her acclaimed Teach Students How to Learn that describes teaching strategies to facilitate dramatic improvements in student learning and success Sandra McGuire here presents these secrets direct to students Her message is that Any student can use simple straightforward strategies to start making A's in their courses and enjoy a lifetime of deep effective learning Beginning with explaining how expectations about learning and the study efforts required differ between college and secondary school the author introduces her readers through the concept of metacognition to the importance and powerful consequences of understanding themselves as learners This framework and the recommended strategies that support it are useful for anyone moving on to a more advanced stage of education so this book also has an intended audience of students preparing to go to high school graduate school or professional school In a conversational tone and liberally illustrated by anecdotes of past students the author combines introducing readers to concepts like Bloom's Taxonomy to illuminate the difference between studying and learning fixed and growth mindsets as well as to what brain science has to tell us about rest nutrition and exercise together with such highly specific learning strategies as how to read a textbook manage their time and take tests With engaging exercises and thought provoking reflections this book is an ideal motivational and practical text for study skills and first year experience courses *Teach Students How to Learn* Sandra 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 and performance. For over a decade, Saundra McGuire has been acclaimed for her presentations and workshops on metacognition and student learning because the tools and strategies she shares have enabled faculty to facilitate dramatic improvements in student learning and success. This book encapsulates the model and ideas she has developed in the past fifteen years—ideas that are being adopted by an increasing number of faculty with considerable effect. The methods she proposes do not require restructuring courses or an inordinate amount of time to teach. They can often be accomplished in a single session, transforming students from memorizers and regurgitators to students who begin to think critically and take responsibility for their own learning. Saundra McGuire takes the reader sequentially through the ideas and strategies that students need to understand and implement. First, she demonstrates how introducing students to metacognition and Bloom's Taxonomy reveals to them the importance of understanding how they learn and provides the lens through which they can view learning activities and measure their intellectual growth. Next, she presents a specific study system that can quickly empower students to maximize their learning. Then, she addresses the importance of dealing with emotion, attitudes, and motivation by suggesting ways to change students' mindsets about ability and by providing a range of strategies to boost motivation and learning. Finally, she offers guidance to faculty on partnering with campus learning centers. She pays particular attention to academically unprepared students, noting that the strategies she offers for this particular population are equally beneficial for all students. While stressing that there are many ways to teach effectively and that readers can be flexible in picking and choosing among the strategies she presents, Saundra McGuire offers the reader a step-by-step process for delivering the key messages of the book to students in as little as 50 minutes. Free online supplements provide three slide sets and a sample video lecture. This book is written primarily for faculty but will be equally useful for TAs, tutors, and learning center professionals. For readers with no background in education or cognitive psychology, the book avoids jargon and esoteric theory.

MASTERING VEDIC MATHEMATICS SPEED CALCULATION TRICKS Mr Sanjay Jeswani, 2026-01-29

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web 1 $\sigma_{\text{address} = 021g \text{ s } 0}$ supplier find the ids of suppliers who supply some red part and some green part $\pi_{\text{sid}} \sigma_{\text{colour} = \text{red} \vee \text{green}}$ part catalog $\pi_{\text{sid}} \sigma_{\text{colour} = \text{green}}$ part catalog 1 alternatively we can replace the intersection with a join $\pi_{\text{sid}} \sigma_{\text{colour} = \text{red} \vee \text{green}}$ part catalog $\pi_{\text{sid}} \sigma_{\text{colour} = \text{green}}$ part catalog 1 1

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