

## LECTURE 26

## Definition

For each  $t$  in the domain of  $r$ , a vector valued function, the unit tangent vector to  $C$  @  $t$  is  $T(t)$ :

$$T(t) = \frac{r'(t)}{\|r'(t)\|}$$

we also know that  $\|T(t)\| = 1$ .



## Definition

if  $r$  is a smooth parameterization of  $C$ ,  $T$  is the unit tangent vector, and  $T'(t) \neq 0$ , the unit normal vector to  $C$  @  $t$  noted  $N(t)$  is

$$N(t) = \frac{T'(t)}{\|T'(t)\|}$$

this always points in the inwards direction of concavity

## Example

Find unit tangent and unit normal vectors to the curve  $r(t) = \langle 1+t, t^2 \rangle$  @  $-1, 0, 1$

tangent:  $r'(t) = \langle 1, 2t \rangle$

$$\|r'(t)\| = \sqrt{1^2 + 4t^2} = \sqrt{4t^2 + 1} \quad T(t) = \left\langle \frac{1}{\sqrt{4t^2 + 1}}, \frac{2t}{\sqrt{4t^2 + 1}} \right\rangle$$

normal:  $r''(t) = \langle 0, 2 \rangle$

$$\|r''(t)\| = 2$$

$$N(t) = \langle 0, 1 \rangle$$

# Multivariable Calculus Notes

**Julia Schneider**



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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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