

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

Ensheng Dong



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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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