

## Advanced Calculus (MAU11202), Homework Assignment 1 Solutions

Straightforward

1. **[3 points]** Find the derivative of the vector-valued function

$$\mathbf{r}(t) = \left( \frac{t^2 - 1}{t^2 + 2}, \sin(t) \ln(t), \cos(\sin(t)) \right).$$

What is  $\mathbf{r}'(1)$  equal to?

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**Solution:**

To differentiate  $\mathbf{r}(t) = (x(t), y(t), z(t))$ , we differentiate the three component functions separately.

Using the Quotient Rule,

$$x'(t) = \frac{2t(t^2 + 2) - 2t(t^2 - 1)}{(t^2 + 2)^2} = \frac{2t^3 + 4t - 2t^3 + 2t}{(t^2 + 2)^2} = \frac{6t}{(t^2 + 2)^2}.$$

Using the Product Rule,

$$y'(t) = \cos t \ln(t) + \sin(t) \cdot \frac{1}{t} = \cos(t) \ln(t) + \frac{\sin(t)}{t}.$$

Using the Chain Rule,  $z'(t) = \cos(t)(-\sin(\sin(t))) = -\cos(t) \sin(\sin(t))$ .

Hence

$$\mathbf{r}'(t) = \left( \frac{6t}{(t^2 + 2)^2}, \cos(t) \ln(t) + \frac{\sin(t)}{t}, -\cos(t) \sin(\sin(t)) \right).$$

Letting  $t = 1$  in this expression, we obtain

$$\begin{aligned} \mathbf{r}'(1) &= \left( \frac{6(1)}{(1^2 + 2)^2}, \cos(1) \ln(1) + \frac{\sin(1)}{1}, -\cos(1) \sin(\sin(1)) \right) \\ &= \left( \frac{2}{3}, \sin(1), -\cos(1) \sin(\sin(1)) \right). \end{aligned}$$

2. **[3 points]** Find the derivative of the vector-valued function

$$\mathbf{r}(t) = (2t^3 - 3t^2 + 5t + 3) \left( \frac{t^2 - 1}{t^2 + 2}, \sin(t) \ln(t), \cos(\sin(t)) \right).$$

What is the domain of this function?

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**Solution:**

Here we use Theorem 1.2.11(c) (Chapter 1 of course notes by Anthony Brown), the solution to Question 1, and the fact that the derivative of  $f(t) = 2t^3 - 3t^2 + 5t + 3$  is  $F'(t) = 6t^2 - 6t + 5$ , to obtain

$$\begin{aligned} \mathbf{r}'(t) &= (2t^3 - 3t^2 + 5t + 3) \left( \frac{6t}{(t^2 + 2)^2}, \cos(t) \ln(t) + \frac{\sin(t)}{t}, \cos(t) \cos(\sin(t)) \right) \\ &\quad + (6t^2 - 6t + 5) \left( \frac{t^2 - 1}{t^2 + 2}, \sin(t) \ln(t), \cos(\sin(t)) \right). \end{aligned}$$

The domain of  $\mathbf{r}$  is  $\mathbb{R} \cap (0, \infty) \cap \mathbb{R} = (0, \infty)$ .

# Calculus Homework Solutions

**Emilie Sanchez**



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## **Table of Contents Calculus Homework Solutions**

1. Understanding the eBook Calculus Homework Solutions
  - The Rise of Digital Reading Calculus Homework Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Calculus Homework Solutions
  - 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 Calculus Homework Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Calculus Homework Solutions
  - Personalized Recommendations
  - Calculus Homework Solutions User Reviews and Ratings
  - Calculus Homework Solutions and Bestseller Lists
5. Accessing Calculus Homework Solutions Free and Paid eBooks
  - Calculus Homework Solutions Public Domain eBooks
  - Calculus Homework Solutions eBook Subscription Services
  - Calculus Homework Solutions Budget-Friendly Options
6. Navigating Calculus Homework Solutions eBook Formats

- ePub, PDF, MOBI, and More
  - Calculus Homework Solutions Compatibility with Devices
  - Calculus Homework Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Calculus Homework Solutions
    - Highlighting and Note-Taking Calculus Homework Solutions
    - Interactive Elements Calculus Homework Solutions
  8. Staying Engaged with Calculus Homework Solutions
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Calculus Homework Solutions
  9. Balancing eBooks and Physical Books Calculus Homework Solutions
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Calculus Homework Solutions
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Calculus Homework Solutions
    - Setting Reading Goals Calculus Homework Solutions
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Calculus Homework Solutions
    - Fact-Checking eBook Content of Calculus Homework Solutions
    - 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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