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Problem 1. Show that an implicit function theorem is satisfied in solving the implicit value problem

$$\begin{cases} x^2 + y^2 + z^2 = 1 & \text{for } (x, y, z) \in \mathbb{R}^3 \\ z = 0 & \text{for } (x, y, z) \in \mathbb{R}^3 \end{cases}$$

around the point $(0, 0, 0)$ and conclude:

Solution. Let $F(x, y, z) = (x^2 + y^2 + z^2, z)$. Then

$$\begin{aligned} \text{rank } DF(x, y, z) &= \begin{pmatrix} 2x & 2y & 2z \\ 0 & 0 & 1 \end{pmatrix} \\ &= \begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 1 \end{pmatrix} \\ &= \begin{pmatrix} 0 & 0 & 0 \end{pmatrix} \end{aligned}$$

Therefore, $\text{rank } DF(0, 0, 0) = 0$. We can solve the ODE setting $z = 0$. Thus,

$$\begin{aligned} x^2 + y^2 &= 1 \\ x &= \cos t \\ y &= \sin t \end{aligned}$$

for $t \in \mathbb{R}$ given $z = 0$.

Thus, we can show that $(0, 0, 0) \in \mathbb{R}^3$ and we obtain $(x, y, z) = (\cos t, \sin t, 0)$.

(1)

Problem 2. Show that F_x satisfies the equation for $t = 0$ and by computing that the ODE is an orthogonal orbit in the sense used in class.

$$\text{rank } DF(x, y, z) = 2 \text{ at } (0, 0, 0)$$

Solution.

Problem.

Using the ODE, determine if $(0, 0, 0)$ is:

$$\begin{aligned} \text{rank } DF(x, y, z) &= \\ &= \begin{pmatrix} 2x & 2y & 2z \\ 0 & 0 & 1 \end{pmatrix} \end{aligned}$$

where $\mathbb{R}^3 = \mathbb{R}^2 \times \mathbb{R}$. This does give that

$$\begin{aligned} \frac{dx}{dt} &= \frac{dy}{dt} = \frac{dz}{dt} = 0 \\ \frac{dx}{dt} &= \frac{dy}{dt} = \frac{dz}{dt} = 0 \\ &= \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \end{aligned}$$

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Table of Contents Evans Chapter 2 Solutions

1. Understanding the eBook Evans Chapter 2 Solutions
 - The Rise of Digital Reading Evans Chapter 2 Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Evans Chapter 2 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 Evans Chapter 2 Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Evans Chapter 2 Solutions

- Personalized Recommendations
 - Evans Chapter 2 Solutions User Reviews and Ratings
 - Evans Chapter 2 Solutions and Bestseller Lists
5. Accessing Evans Chapter 2 Solutions Free and Paid eBooks
 - Evans Chapter 2 Solutions Public Domain eBooks
 - Evans Chapter 2 Solutions eBook Subscription Services
 - Evans Chapter 2 Solutions Budget-Friendly Options
 6. Navigating Evans Chapter 2 Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Evans Chapter 2 Solutions Compatibility with Devices
 - Evans Chapter 2 Solutions Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Evans Chapter 2 Solutions
 - Highlighting and Note-Taking Evans Chapter 2 Solutions
 - Interactive Elements Evans Chapter 2 Solutions
 8. Staying Engaged with Evans Chapter 2 Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Evans Chapter 2 Solutions
 9. Balancing eBooks and Physical Books Evans Chapter 2 Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Evans Chapter 2 Solutions
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Evans Chapter 2 Solutions
 - Setting Reading Goals Evans Chapter 2 Solutions
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Evans Chapter 2 Solutions

- Fact-Checking eBook Content of Evans Chapter 2 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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