

Problem 1.15:

a) The divergence of v_a is calculated below:

$$\begin{aligned}v_a &= x^2 \hat{x} + 3xz^2 \hat{y} - 2xz \hat{z} \\ \Rightarrow \nabla \cdot v_a &= \frac{\partial(x^2)}{\partial x} + \frac{\partial(3xz^2)}{\partial y} + \frac{\partial(-2xz)}{\partial z} \\ \Rightarrow \nabla \cdot v_a &= 2x + 0 + (-2x) \\ \Rightarrow \nabla \cdot v_a &= \boxed{0}\end{aligned}$$

b) The divergence of v_b can be calculated as follow:

$$\begin{aligned}v_b &= xy \hat{x} + 2yz \hat{y} + 3zx \hat{z} \\ \Rightarrow \nabla \cdot v_b &= \frac{\partial(xy)}{\partial x} + \frac{\partial(2xy)}{\partial y} + \frac{\partial(3zx)}{\partial z} \\ \Rightarrow \nabla \cdot v_b &= y + 2x + 3x \\ \Rightarrow \nabla \cdot v_b &= \boxed{5x + y}\end{aligned}$$

c) The divergence of v_c can be calculated as follow:

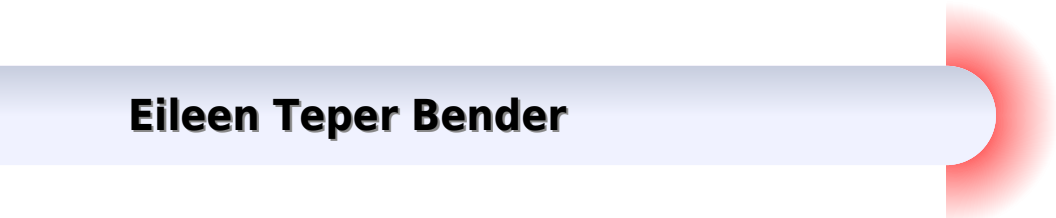
$$\begin{aligned}v_c &= y^2 \hat{x} + (2xy + z^2) \hat{y} + 2yz \hat{z} \\ \Rightarrow \nabla \cdot v_c &= \frac{\partial(y^2)}{\partial x} + \frac{\partial(2xy + z^2)}{\partial y} + \frac{\partial(2yz)}{\partial z} \\ \Rightarrow \nabla \cdot v_c &= 0 + 2x + 2y \\ \Rightarrow \nabla \cdot v_c &= \boxed{2x + 2y}\end{aligned}$$

Problem 1.16:

We can plot the given vector field $v = \frac{\hat{r}}{r^2}$ as follow:

Answer My Physics Problem

Eileen Teper Bender



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Table of Contents Answer My Physics Problem

1. Understanding the eBook Answer My Physics Problem
 - The Rise of Digital Reading Answer My Physics Problem
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer My Physics Problem
 - 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 Answer My Physics Problem
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer My Physics Problem
 - Personalized Recommendations
 - Answer My Physics Problem User Reviews and Ratings
 - Answer My Physics Problem and Bestseller Lists
5. Accessing Answer My Physics Problem Free and Paid eBooks

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