Problem 1.15:

a) The divergence of v_i is calculated below:

$$\begin{aligned} \mathbf{v}_{a} &= \mathbf{x}^{2} \, \mathbf{x} + 3\mathbf{x}\mathbf{z}^{2} \, \mathbf{y} - 2\mathbf{x}\mathbf{z}^{2} \\ &\Rightarrow \nabla \cdot \mathbf{v}_{a} = \frac{\partial \left(\mathbf{x}^{2} \right)}{\partial \mathbf{x}} + \frac{\partial \left(3\mathbf{x}\mathbf{z}^{2} \right)}{\partial \mathbf{y}} + \frac{\partial \left(-2\mathbf{x}\mathbf{z} \right)}{\partial \mathbf{z}} \\ &\Rightarrow \nabla \cdot \mathbf{v}_{a} = 2\mathbf{x} + 0 + \left(-2\mathbf{x} \right) \\ &\Rightarrow \nabla \cdot \mathbf{v}_{a} = \mathbf{0} \end{aligned}$$

b) The divergence of $v_{\rm b}$ can be calculated as follow:

$$\begin{aligned} & v_b = xyx + 2yzy + 3zx\hat{z} \\ & \Rightarrow \nabla \cdot v_b = \frac{\partial \left(xy \right)}{\partial x} + \frac{\partial \left(2xy \right)}{\partial y} + \frac{\partial \left(3zx \right)}{\partial z} \\ & \Rightarrow \nabla \cdot v_b = y + 2x + 3x \\ & \Rightarrow \nabla \cdot v_b = \left[5x + y \right] \end{aligned}$$

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

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

Problem 1.16;

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

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- 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
 - $\circ\,$ 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
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- Answer My Physics Problem Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o 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
 - $\circ\,$ 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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