

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:

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

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

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Answer My Physics Problem:

Answer My Physics Problem Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Answer My Physics Problem**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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