

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:

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

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

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

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

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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 been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Answer My Physics Problem**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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