

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:

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