

Problem 1.13

$$\mathbf{A} = (x - x')\mathbf{i} + (y - y')\mathbf{j} + (z - z')\mathbf{k}; \quad |\mathbf{A}| = \sqrt{(x - x')^2 + (y - y')^2 + (z - z')^2}.$$

$$(a) \nabla(|\mathbf{A}|^2) = \frac{\partial}{\partial x}[(x - x')^2 + (y - y')^2 + (z - z')^2]\mathbf{i} + \frac{\partial}{\partial y}(\quad)\mathbf{j} + \frac{\partial}{\partial z}(\quad)\mathbf{k} = 2(x - x')\mathbf{i} + 2(y - y')\mathbf{j} + 2(z - z')\mathbf{k} = 2\mathbf{A}.$$

$$(b) \nabla\left(\frac{1}{|\mathbf{A}|}\right) = \frac{\partial}{\partial x}[(x - x')^2 + (y - y')^2 + (z - z')^2]^{-\frac{1}{2}}\mathbf{i} + \frac{\partial}{\partial y}(\quad)^{-\frac{1}{2}}\mathbf{j} + \frac{\partial}{\partial z}(\quad)^{-\frac{1}{2}}\mathbf{k} \\ = -\frac{1}{2}(\quad)^{-\frac{3}{2}}2(x - x')\mathbf{i} - \frac{1}{2}(\quad)^{-\frac{3}{2}}2(y - y')\mathbf{j} - \frac{1}{2}(\quad)^{-\frac{3}{2}}2(z - z')\mathbf{k} \\ = -(\quad)^{-\frac{3}{2}}[(x - x')\mathbf{i} + (y - y')\mathbf{j} + (z - z')\mathbf{k}] = -(1/|\mathbf{A}|^3)\mathbf{A} = -(1/|\mathbf{A}|^2)\hat{\mathbf{A}}.$$

$$(c) \frac{\partial}{\partial x}(|\mathbf{A}|^{-n}) = n|\mathbf{A}|^{-n-1}\frac{\partial |\mathbf{A}|}{\partial x} = n|\mathbf{A}|^{-n-1}\left(\frac{1}{2}|\mathbf{A}|^{-2}2\mathbf{A} \cdot \mathbf{i}\right) = n|\mathbf{A}|^{-n-1}\hat{\mathbf{A}} \cdot \mathbf{i}, \text{ so } \boxed{\nabla(|\mathbf{A}|^{-n}) = -n|\mathbf{A}|^{-n-1}\hat{\mathbf{A}}}.$$

Problem 1.14

$$\bar{y} = +y \cos \phi + z \sin \phi; \text{ multiply by } \sin \phi: \bar{y} \sin \phi = +y \sin \phi \cos \phi + z \sin^2 \phi.$$

$$\bar{z} = -y \sin \phi + z \cos \phi; \text{ multiply by } \cos \phi: \bar{z} \cos \phi = -y \sin \phi \cos \phi + z \cos^2 \phi.$$

$$\text{Add: } \bar{y} \sin \phi + \bar{z} \cos \phi = z(\sin^2 \phi + \cos^2 \phi) = z. \text{ Likewise, } \bar{y} \cos \phi - \bar{z} \sin \phi = y.$$

$$\text{So } \frac{\partial \bar{y}}{\partial y} = \cos \phi; \frac{\partial \bar{y}}{\partial z} = \sin \phi; \frac{\partial \bar{z}}{\partial y} = \sin \phi; \frac{\partial \bar{z}}{\partial z} = \cos \phi. \text{ Therefore}$$

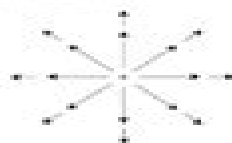
$$\left. \begin{aligned} (\nabla f)_{\bar{y}} &= \frac{\partial f}{\partial \bar{y}} = \frac{\partial f}{\partial y} \frac{\partial \bar{y}}{\partial y} + \frac{\partial f}{\partial z} \frac{\partial \bar{y}}{\partial z} = +\cos \phi (\nabla f)_y + \sin \phi (\nabla f)_z \\ (\nabla f)_{\bar{z}} &= \frac{\partial f}{\partial \bar{z}} = \frac{\partial f}{\partial y} \frac{\partial \bar{z}}{\partial y} + \frac{\partial f}{\partial z} \frac{\partial \bar{z}}{\partial z} = -\sin \phi (\nabla f)_y + \cos \phi (\nabla f)_z \end{aligned} \right\} \text{ So } \nabla f \text{ transforms as a vector.} \quad \text{q.e.d.}$$

Problem 1.15

$$(a) \nabla \cdot \mathbf{v}_a = \frac{\partial}{\partial x}(x^2) + \frac{\partial}{\partial y}(3xz^2) + \frac{\partial}{\partial z}(-2xz) = 2x + 0 - 2x = 0.$$

$$(b) \nabla \cdot \mathbf{v}_b = \frac{\partial}{\partial x}(xy) + \frac{\partial}{\partial y}(2yz) + \frac{\partial}{\partial z}(3xz) = y + 2z + 3x.$$

$$(c) \nabla \cdot \mathbf{v}_c = \frac{\partial}{\partial x}(y^2) + \frac{\partial}{\partial y}(2xy + z^2) + \frac{\partial}{\partial z}(2yz) = 0 + (2x) + (2y) = 2(x + y)$$

Problem 1.16

$$\begin{aligned} \nabla \cdot \mathbf{v} &= \frac{\partial}{\partial x}\left(\frac{1}{r^3}\right) + \frac{\partial}{\partial y}\left(\frac{1}{r^3}\right) + \frac{\partial}{\partial z}\left(\frac{1}{r^3}\right) = \frac{\partial}{\partial x}\left[x(x^2 + y^2 + z^2)^{-\frac{3}{2}}\right] \\ &+ \frac{\partial}{\partial y}\left[y(x^2 + y^2 + z^2)^{-\frac{3}{2}}\right] + \frac{\partial}{\partial z}\left[z(x^2 + y^2 + z^2)^{-\frac{3}{2}}\right] \\ &= (-\frac{3}{2}) + x(-3/2)(\quad)^{-\frac{5}{2}}2x + (-\frac{3}{2}) + y(-3/2)(\quad)^{-\frac{5}{2}}2y + (-\frac{3}{2}) \\ &+ z(-3/2)(\quad)^{-\frac{5}{2}}2z = 3r^{-3} - 3r^{-3}(x^2 + y^2 + z^2) = 3r^{-3} - 3r^{-3} = 0. \end{aligned}$$

This conclusion is surprising, because, from the diagram, this vector field is obviously diverging away from the origin. How, then, can $\nabla \cdot \mathbf{v} = 0$? The answer is that $\nabla \cdot \mathbf{v} = 0$ everywhere *except* at the origin, but at the origin our calculation is no good, since $r = 0$, and the expression for \mathbf{v} blows up. In fact, $\nabla \cdot \mathbf{v}$ is *infinite* at that one point, and zero elsewhere, as we shall see in Sect. 1.5.

Problem 1.17

$$\bar{v}_y = \cos \phi v_y + \sin \phi v_z; \quad \bar{v}_z = -\sin \phi v_y + \cos \phi v_z.$$

$$\frac{\partial \bar{v}_y}{\partial \bar{y}} = \frac{\partial v_y}{\partial y} \cos \phi + \frac{\partial v_z}{\partial z} \sin \phi = \left(\frac{\partial v_y}{\partial y} \frac{\partial \bar{y}}{\partial y} + \frac{\partial v_z}{\partial z} \frac{\partial \bar{y}}{\partial z}\right) \cos \phi + \left(\frac{\partial v_y}{\partial y} \frac{\partial \bar{z}}{\partial y} + \frac{\partial v_z}{\partial z} \frac{\partial \bar{z}}{\partial z}\right) \sin \phi. \text{ Use result in Prob. 1.14:} \\ = \left(\frac{\partial v_y}{\partial y} \cos \phi + \frac{\partial v_z}{\partial z} \sin \phi\right) \cos \phi + \left(\frac{\partial v_y}{\partial y} \sin \phi + \frac{\partial v_z}{\partial z} \cos \phi\right) \sin \phi.$$

$$\frac{\partial \bar{v}_z}{\partial \bar{z}} = -\frac{\partial v_y}{\partial y} \sin \phi + \frac{\partial v_z}{\partial z} \cos \phi = -\left(\frac{\partial v_y}{\partial y} \frac{\partial \bar{z}}{\partial y} + \frac{\partial v_z}{\partial z} \frac{\partial \bar{z}}{\partial z}\right) \sin \phi + \left(\frac{\partial v_y}{\partial y} \frac{\partial \bar{z}}{\partial z} + \frac{\partial v_z}{\partial z} \frac{\partial \bar{z}}{\partial z}\right) \cos \phi \\ = -\left(-\frac{\partial v_y}{\partial y} \sin \phi + \frac{\partial v_z}{\partial z} \cos \phi\right) \sin \phi + \left(-\frac{\partial v_y}{\partial y} \cos \phi + \frac{\partial v_z}{\partial z} \sin \phi\right) \cos \phi. \text{ So}$$

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