

**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**

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

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

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

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

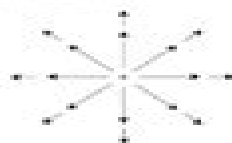
$$\left. \begin{aligned} (\nabla f)_{\bar{y}} &= \frac{\partial f}{\partial \bar{y}} = \frac{\partial f}{\partial y} \frac{\partial y}{\partial \bar{y}} + \frac{\partial f}{\partial z} \frac{\partial z}{\partial \bar{y}} = +\cos \phi (\nabla f)_y + \sin \phi (\nabla f)_z \\ (\nabla f)_{\bar{z}} &= \frac{\partial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

**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**

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

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

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

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*Classical Electromagnetic Theory* Jack Vanderlinde, 2004-10-13 This book is a self contained course in electromagnetic theory suitable for senior physics and electrical engineering students as well as graduate students whose past has not prepared them well for books such as Jackson or Landau and Lifschitz The text is liberally sprinkled with worked examples illustrating the application of the theory to various physical problems In this new edition I have endeavored to improve the accuracy and readability added and further clarified examples added sections on Schwarz Christoffel mappings and to make the book more self sufficient added an appendix on orthogonal function expansions and added the derivation of Bessel functions and Legendre polynomials as well as derivation of their generating functions The number of student exercises has been increased by 45 over the previous edition This book stresses the unity of electromagnetic theory with electric and magnetic fields developed in parallel SI units are used throughout and considerable use is made of tensor notation and the Levi Cevita symbol To more closely display the parallelism extensive use is made of the scalar magnetic potential particularly in dealing with the Laplace and Poisson equation 85 worked problems illustrate the theory Conformal mappings are dealt with in some detail Relevant mathematical material is provided in appendices For information regarding Solutions Manual please contact the author Jack Vanderlinde at jvd@unb.ca or see website [www.unb.ca/fredericton/science/physics/jvdl](http://www.unb.ca/fredericton/science/physics/jvdl)

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