

$$(b) \frac{d^2\mathbf{r}}{dt^2} = \frac{d\mathbf{v}}{dt} = -\omega^2 \cos \omega t \mathbf{i} - \omega^2 \sin \omega t \mathbf{j} = -\omega^2 [\cos \omega t \mathbf{i} + \sin \omega t \mathbf{j}] = -\omega^2 \mathbf{r}$$

Then the acceleration is opposite to the direction of $\mathbf{r}$, i.e. it is directed toward the origin. Its magnitude is proportional to $|\mathbf{r}|$ which is the distance from the origin.

$$(c) \mathbf{r} \times \mathbf{v} = [\cos \omega t \mathbf{i} + \sin \omega t \mathbf{j}] \times [-\omega \sin \omega t \mathbf{i} + \omega \cos \omega t \mathbf{j}]$$

$$= \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ \cos \omega t & \sin \omega t & 0 \\ -\omega \sin \omega t & \omega \cos \omega t & 0 \end{vmatrix} = \omega(\cos^2 \omega t + \sin^2 \omega t)\mathbf{k} = \omega\mathbf{k}, \text{ a constant vector.}$$

Physically, the motion is that of a particle moving on the circumference of a circle with constant angular speed ω . The acceleration, directed toward the center of the circle, is the centripetal acceleration.

GRADIENT, DIVERGENCE AND CURL

1.37. If $\phi = x^2yz^2$ and $\mathbf{A} = xz\mathbf{i} - y^2\mathbf{j} + 2x^2y\mathbf{k}$, find (a) $\nabla\phi$, (b) $\nabla \cdot \mathbf{A}$, (c) $\nabla \times \mathbf{A}$, (d) $\text{div}(\phi\mathbf{A})$, (e) $\text{curl}(\phi\mathbf{A})$.

$$(a) \nabla\phi = \left(\frac{\partial}{\partial x}\mathbf{i} + \frac{\partial}{\partial y}\mathbf{j} + \frac{\partial}{\partial z}\mathbf{k}\right)\phi = \frac{\partial\phi}{\partial x}\mathbf{i} + \frac{\partial\phi}{\partial y}\mathbf{j} + \frac{\partial\phi}{\partial z}\mathbf{k}$$

$$= \frac{\partial}{\partial x}(x^2yz^2)\mathbf{i} + \frac{\partial}{\partial y}(x^2yz^2)\mathbf{j} + \frac{\partial}{\partial z}(x^2yz^2)\mathbf{k} = 2xyz^2\mathbf{i} + x^2z^2\mathbf{j} + 2x^2yz\mathbf{k}$$

$$(b) \nabla \cdot \mathbf{A} = \left(\frac{\partial}{\partial x}\mathbf{i} + \frac{\partial}{\partial y}\mathbf{j} + \frac{\partial}{\partial z}\mathbf{k}\right) \cdot (xz\mathbf{i} - y^2\mathbf{j} + 2x^2y\mathbf{k})$$

$$= \frac{\partial}{\partial x}(xz) + \frac{\partial}{\partial y}(-y^2) + \frac{\partial}{\partial z}(2x^2y) = z - 2y$$

$$(c) \nabla \times \mathbf{A} = \left(\frac{\partial}{\partial x}\mathbf{i} + \frac{\partial}{\partial y}\mathbf{j} + \frac{\partial}{\partial z}\mathbf{k}\right) \times (xz\mathbf{i} - y^2\mathbf{j} + 2x^2y\mathbf{k})$$

$$= \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ \partial/\partial x & \partial/\partial y & \partial/\partial z \\ xz & -y^2 & 2x^2y \end{vmatrix}$$

$$= \left(\frac{\partial}{\partial y}(2x^2y) - \frac{\partial}{\partial z}(-y^2)\right)\mathbf{i} + \left(\frac{\partial}{\partial x}(xz) - \frac{\partial}{\partial z}(2x^2y)\right)\mathbf{j} + \left(\frac{\partial}{\partial x}(-y^2) - \frac{\partial}{\partial y}(xz)\right)\mathbf{k}$$

$$= 2x^2\mathbf{i} + (x - 4xy)\mathbf{j}$$

$$(d) \text{div}(\phi\mathbf{A}) = \nabla \cdot (\phi\mathbf{A}) = \nabla \cdot (x^3yz^2\mathbf{i} - x^2y^2z^2\mathbf{j} + 2x^4yz^2\mathbf{k})$$

$$= \frac{\partial}{\partial x}(x^3yz^2) + \frac{\partial}{\partial y}(-x^2y^2z^2) + \frac{\partial}{\partial z}(2x^4yz^2)$$

$$= 3x^2yz^2 - 2x^2y^2z^2 + 4x^4yz$$

$$(e) \text{curl}(\phi\mathbf{A}) = \nabla \times (\phi\mathbf{A}) = \nabla \times (x^3yz^2\mathbf{i} - x^2y^2z^2\mathbf{j} + 2x^4yz^2\mathbf{k})$$

$$= \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ \partial/\partial x & \partial/\partial y & \partial/\partial z \\ x^3yz^2 & -x^2y^2z^2 & 2x^4yz^2 \end{vmatrix}$$

$$= (4x^2yz^2 + 3x^2y^2z^2)\mathbf{i} + (4x^3yz^2 - 8x^2y^2z^2)\mathbf{j} - (2xy^2z^2 + x^2z^4)\mathbf{k}$$

1.38. (a) If $\mathbf{A} = (2xy + x^2)\mathbf{i} + (x^2 + 2y)\mathbf{j} + (3xz^2 - 2)\mathbf{k}$, show that $\nabla \times \mathbf{A} = 0$.
 (b) Find a scalar function ϕ such that $\mathbf{A} = \nabla\phi$.

$$(a) \nabla \times \mathbf{A} = \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ \partial/\partial x & \partial/\partial y & \partial/\partial z \\ 2xy + x^2 & x^2 + 2y & 3xz^2 - 2 \end{vmatrix} = 0$$

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