

① Find a unit vector normal to surface $x^2y + 2xyz = 4$ at the point $(2, -2, 2)$.

$$\hat{n} = \frac{\nabla \phi}{|\nabla \phi|} \quad \phi = x^2y + 2xyz - 4$$

$$\nabla \phi = (2xy + 2yz)\hat{i} + (x^2 + 2xz)\hat{j} + \hat{k}(2xy)$$

$$\begin{aligned} \hat{n} &= \frac{\nabla \phi}{|\nabla \phi|} = \frac{(2(-4) + 2(-6))\hat{i} + (4 + 2(4))\hat{j} + \hat{k}(4)}{\sqrt{64 + (20)^2 + (16)^2 + (16)}} \\ &= \frac{20\hat{i} + 16\hat{j} - 4\hat{k}}{\sqrt{672}} \end{aligned}$$

② Find angle b/w surfaces $x^2 + y^2 + z^2 = 9$ & $z = x^2 + y^2 - 3$ at the pt. $(2, -1, 2)$

$$\cos \theta = \frac{\nabla \phi_1 \cdot \nabla \phi_2}{|\nabla \phi_1| |\nabla \phi_2|}$$

$$\phi_1 = x^2 + y^2 + z^2 - 9 \quad \phi_2 = x^2 + y^2 - z - 3$$

$$\nabla \phi_1 = \left(\frac{\partial}{\partial x} \hat{i} + \frac{\partial}{\partial y} \hat{j} + \frac{\partial}{\partial z} \hat{k} \right) \phi_1 = 2x\hat{i} + 2y\hat{j} + 2z\hat{k}$$

$$\nabla \phi_2 = \left(\frac{\partial}{\partial x} \hat{i} + \frac{\partial}{\partial y} \hat{j} + \frac{\partial}{\partial z} \hat{k} \right) \phi_2 = 2x\hat{i} + 2y\hat{j} - \hat{k}$$

at pt. $(2, -1, 2)$

$$\phi_1 = 4\hat{i} - 2\hat{j} + 4\hat{k}$$

$$\phi_2 = 4\hat{i} - 2\hat{j} - \hat{k}$$

$$\cos \theta = \frac{\nabla \phi_1 \cdot \nabla \phi_2}{|\nabla \phi_1| |\nabla \phi_2|}$$

$$\begin{aligned} &= \frac{16 + 4 - 4}{\sqrt{16+4+16} \sqrt{16+4+1}} \\ &= \frac{16}{136 \cdot 21} = \frac{8}{3\sqrt{21}} \end{aligned}$$

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