

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.  $(2, -1, 2)$

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

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

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

$$\begin{aligned} &= \frac{16 + 4 - 4}{\sqrt{16+4+16} \sqrt{16+4+1}} \\ &= \frac{16}{136 \cdot 121} = \frac{8}{3\sqrt{21}} \end{aligned}$$

# Advanced Calculus Lecture Notes For Mathematics 217 317

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web product name chain bar oil sds no 0131 052812 hl common name chemical name bar and chain oil lubricating oil  
chemical family hydrocarbon relevant identified uses of the substance or mixture and uses advised against lubricating oil  
revision date chemical formula 04 23 2020 mixture osha hcs status section 2

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100c0107 revision date 2005 june 14 language english

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telephone number 02 6284 4966 fax number chainsaw and bar oil iso 160 jan 2020 product code 88880 material safety data sheet po box 166 harden nsw 2587 19a stephens

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web product name chainsaw cutterbar lube sds no 465972 use of the substance mixture chain lubricant for specific application advice see appropriate technical data sheet or consult our company representative bp southern africa Pty Ltd 10 junction avenue parktown johannesburg south africa 2193 product technical helpdesk 0800

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web product description chainsaw oil is specifically developed for the lubrication of chain and guide bars of modern chain saws selected mineral base oils are combined with special additives to provide good protection against wear rust and corrosion chainsaw oil has good low temperature flow properties which makes it suitable for outside

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web castrol chainsaw oil is a tacky lubricant for use on the chain bar and sprocket of chain saws and cutter bars fitted with automatic oiling systems castrol chainsaw oil is formulated to resist centrifugal throw off penetrate into the chain and lubricate during use

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web product name mobil chainsaw oil product description base oil and additives product code 201560b05013 1 2 relevant identified uses of the substance or mixture and uses advised against intended use lubricant uses advised against none unless specified elsewhere in this sds 1 3 details of the supplier

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