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STUDY GUIDE: VECTOR CALCULUS

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1. Glossary/Notation \times = vector cross product. If $x_1 = (x_1, y_1, z_1)$, $x_2 = (x_2, y_2, z_2)$, then the cross product is computed as the symbolic determinant $x_1 \times x_2 = \det \begin{matrix} i & j & k \\ x_1 & y_1 & z_1 \\ x_2 & y_2 & z_2 \end{matrix}$. The cross product produces a vector perpendicular to both x_1 and x_2 .

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Solutions Manual by Karen Pao

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$2 + y^2 + z^2) = \cos^{-1}(z/p)$. 4. Soon

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For example if the x component is zero then $(2, ?3, 5) \cdot (0, y, z) = ?3y + 5z$ is solved

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when $y = 5k$ and $z = 3k$ for any scalar k . In other words, the vectors $a = (0, 5, 3)$ and $b = (3, 2, 0)$ are orthogonal to n . For a point in the plane $2x + 3y + 5z = 30$, set any two of x , y , and z to zero. For example $(0, 0, 6)$ is in the plane.

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