

Vector Calculus Study Guide Solutions Manual Karen Pao

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STUDY GUIDE: VECTOR CALCULUS 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 $x_1 \times x_2 = \det \begin{bmatrix} i & j & k \\ x_1 & y_1 & z_1 \\ x_2 & y_2 & z_2 \end{bmatrix}$. The cross product produces a vector perpendicular to both x_1 and x_2 .

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Denoted by (p, ϕ) , ϕ is the distance from the origin, ϕ is the angle from the positive z axis and ϕ is the same as in cylindrical coordinates. Know the formulas $x = p \cos \phi \sin \phi$, $y = p \sin \phi \sin \phi$ and $z = p \cos \phi$. Also know $\tan^{-1}(y/x)$ and $\phi = \cos^{-1}(z / \sqrt{x^2 + y^2 + z^2}) = \cos^{-1}(z/p)$.

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For example if the x component is zero then $(2, -3, 5) \cdot (0, y, z) = -3y + 5z$ is solved 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 each other. 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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Evaluate Now, multiply the components of vector with 6 and multiply the components of vector with 8 and then add these resultants as follows. The vectors and can be plotted as follows.

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