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The subject of vector calculus is vast and these hints attempt to distill the most important material from each section into a few concise statements. The remainder of this study guide consists of Solutions to Selected Exercises. The exercises selected include easier problems as well as very challenging ones.

Student Study Guide with Solutions for Vector Calculus ...

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 (ρ, ϕ, θ) , ρ is the distance from the origin, θ is the angle from the positive z axis and ϕ is the same as in cylindrical coordinates. Know the formulas $x = \rho \cos \phi \sin \theta$, $y = \rho \sin \phi \sin \theta$ and $z = \rho \cos \theta$. Also know $\tan^{-1} \frac{y}{x} = \phi$ and $\theta = \cos^{-1} \left(\frac{z}{\sqrt{x^2 + y^2 + z^2}} \right) = \cos^{-1} \left(\frac{z}{\rho} \right)$.

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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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