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Denoted by  $(\rho, \phi, \theta)$ ,  $\rho$  is the distance from the origin,  $\theta$  is the angle from the positive  $z$  axis and  $\phi$  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  $\tan \theta = \sqrt{x^2 + y^2} / z$ ,  $\phi = \tan^{-1}(y/x)$  and  $\theta = \cos^{-1}(z / \sqrt{x^2 + y^2 + z^2}) = \cos^{-1}(z/\rho)$ .

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

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$+5z$  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  $n$ . 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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Evaluate Now, multiply the components of vector with 6 and multiply

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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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required, particularly the concepts of matrices and determinants. The book is designed to be self-contained, so that it is suitable for a programme of individual study. Each of the eight chapters introduces a new topic, and to facilitate understanding of the material, frequent reference is made to physical applications. The physical nature of the subject is clarified with over sixty diagrams, which provide an important aid to the comprehension of the new concepts. Following the introduction of each new topic, worked examples are provided. It is essential that these are studied carefully, so that a full understanding is developed before moving ahead. Like much of mathematics, each section of the book is built on the foundations laid in the earlier sections and chapters.

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This book gives a comprehensive and thorough introduction to ideas and major results of the theory of functions of several variables and of modern vector calculus in two and three dimensions. Clear and easy-to-follow writing style, carefully crafted examples, wide spectrum of applications and numerous illustrations, diagrams, and graphs invite students to use the textbook actively, helping them to both enforce their understanding of the material and to brush up on necessary technical and computational skills. Particular attention has been given to the material that some students find challenging, such as the chain rule, Implicit Function Theorem, parametrizations, or the Change of Variables Theorem.

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