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distill the most important material from each section into a few

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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.

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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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differentiation. Some knowledge of linear algebra is also 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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with some acquaintance with linear algebra. The reader should be familiar with limit and continuity type arguments and have a certain amount of mathematical sophistication. As possible introductory texts, we mention Differential and Integral Calculus by R Courant, Calculus by T Apostol, Calculus by M Spivak, and Pure Mathematics by G Hardy. The reader should also have some experience with partial derivatives. In overall plan the book divides roughly into a first half which develops the calculus (principally the differential calculus) in the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds.

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