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This book is intended to help you, the student, navigate the 6th edition of Vector Calculus by Jerrold E. Marsden and Anthony Tromba. The chapters and sections of this study guide correspond exactly to those of the textbook, and every exercise solved here appears in blue type there.

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

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surface integrals, and theorems regarding vector calculus integrals (fundamental theorem of line integrals, Green's theorem, Stokes' theorem, and divergence theorem). These are covered in Chapters 12-17 of the textbook. CALCULATORS: A graphing calculator is useful as a study and learning tool when used appropriately, but it is not essential.

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mathematics from differential geometry to multivariable calculus. Those studying vector calculus must have an understanding of the essential processes and relationships of vector calculus. The following will provide guidance to the operations, theorems, and characteristics of vector calculus. Mathematical Notation

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The vectors  $a = (1, 2, 1)$ ,  $b = (0, -2, 3)$  and  $a + b = (1, 2, 1) + (0, -2, 3) = (1, 0, 4)$  are graphed below. Again note that the origin is at the tails of the vectors in the figure. Also,  $-1(1, 2, 1) = (-1, -2, -1)$ . This would be pictured by drawing the vector  $(1, 2, 1)$  in the opposite direction.

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