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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.

Student Study Guide with Solutions for Vector Calculus ...

STUDY GUIDE: VECTOR CALCULUS 1. Glossary/Notation \mathbf{x} = vector cross product. If $\mathbf{x} 1 = (x 1, y 1, z 1)$, $\mathbf{x} 2 = (x 2, y 2, z 2)$, then the cross product is computed as the symbolic determinant $\mathbf{x} 1 \times \mathbf{x} 2 = \det \begin{bmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ x 1 & y 1 & z 1 \\ x 2 & y 2 & z 2 \end{bmatrix}$. The cross product produces a vector perpendicular to both $\mathbf{x} 1$ and $\mathbf{x} 2$.

STUDY GUIDE: VECTOR CALCULUS

Web Study Guide for Vector Calculus This is the general table of contents for the vector calculus related pages. There are separate table of contents pages for Math 254 and Math 255. Mathematical Notation used in these pages Review of Integration Techniques; Coordinate Systems in Two and Three Dimensions; Vectors Introduction; Dot Product; Cross Product

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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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Vector calculus is a form of mathematics that is focused on the integration of vector fields. Vector calculus uses extensive variations of 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 $\mathbf{a} = (1, 2, 1)$, $\mathbf{b} = (0, 7, 2, 3)$ and $\mathbf{a} + \mathbf{b} = (1, 2, 1) + (0, 7, 2, 3) = (1, 0, 4)$ are graphed below. Again note that the origin is at the tails of the vectors in the figure. Also, $\mathbf{?}(1, 2, 1) = (\mathbf{?}1, \mathbf{?}2, \mathbf{?}1)$. This would be pictured by drawing the vector (1, 2, 1) in the opposite direction.

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It is well organized, covers single variable and multivariable calculus in depth, and is rich with applications. There is also a comprehensive Textbook and an online Instructor's Manual. Cover of Calculus, by Professor Gilbert Strang. (Image courtesy of Gilbert Strang.) Calculus Study Guide Components

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