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(c) In the order $dydx dz$, the integral is easiest to write down by consulting the figure drawn in the previous part; one gets $\int_0^1 \int_0^{1-z} \int_0^{1-z-y} f(x;y;z) dy dx dz$: 5. Let $G(x;y)=(x^2+y^2+2xy)i+(y^2+y^2+x^2)j$. (a) Show that $G = \nabla f$ for some f ; find such an f . (b) Use (a) to show that the line integral of G around the edge of the triangle with

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16 Vector Calculus 16.1 Vector Fields This chapter is concerned with applying calculus in the context of vector fields. A two-dimensional vector field is a function f that maps each point (x,y) in \mathbb{R}^2 to a two-dimensional vector u,v , and similarly a three-dimensional vector field maps (x,y,z) to

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Vector calculus, or vector analysis, is a branch of mathematics concerned with differentiation and integration of vector fields, primarily in 3-dimensional Euclidean space. The term "vector calculus" is sometimes used as a synonym for the broader subject of multivariable calculus, which includes vector calculus as well as partial differentiation and multiple integration.

Vector calculus - Wikipedia

substantially different directions. For example, while Understanding Calculus II: Problems, Solutions, and Tips, a natural predecessor for this course, does introduce some topics in preparation for multivariable calculus—conics, vectors, parametric equations, polar coordinates, and vector-valued functions—the bulk of

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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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