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$r = [a^2 + R^2 - 2aR \cos(\theta - \phi)]^{1/2}$, where θ and ϕ are the polar angles in x and y space, respectively. Second, our solution must be valid for all y in the circle; hence the distance of y from the origin must now become a variable, which we shall call r. Finally, note that $ds = R d\theta$ on C, so we can write the solution in polar coordinates as.

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Curl of a Vector Field If $F = F_1i + F_2j + F_3k$, the curl of F is the vector field $\text{curl } F = \nabla \times F = (\partial_x F_3 - \partial_z F_2)\mathbf{i} + (\partial_y F_3 - \partial_z F_1)\mathbf{j} + (\partial_x F_2 - \partial_y F_1)\mathbf{k}$. THEOREM 1: Curl of a Gradient For any C^2 function f , $\nabla \times (\nabla f) = \mathbf{0}$. That is, the curl of any gradient is the zero vector. THEOREM 2: Divergence of a Curl For any C^2 vector field F $\text{div } (\text{curl } F) = \nabla \cdot (\nabla \times F) = 0$.

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'Vector Calculus' helps students foster computational skills and intuitive understanding with a careful balance of theory, applications, and optional materials. This new edition offers revised coverage in several areas as well as a large number of new exercises and expansion of historical notes.

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The MznLnx Exam Prep series is designed to help you pass your exams. Editors at MznLnx review your textbooks and then prepare these practice exams to help you master the textbook material. Unlike study guides, workbooks, and practice tests provided by the textbook publisher and textbook authors, MznLnx gives you all of the material in each chapter in exam form, not just samples, so you can be sure to nail your exam.

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.

Differential geometry arguably offers the smoothest transition from the standard university mathematics sequence of the first four semesters in calculus, linear algebra, and differential equations to the higher levels of abstraction and proof encountered at the upper division by mathematics majors. Today it is possible to describe differential geometry as "the study of structures on the tangent space," and this text develops this point of view. This book, unlike other introductory texts in differential geometry, develops the architecture necessary to introduce symplectic and contact geometry alongside its Riemannian cousin. The main goal of this book is to bring the undergraduate student who already has a solid foundation in the standard mathematics curriculum into contact with the beauty of higher mathematics. In particular, the presentation here emphasizes the consequences of a definition and the careful use of examples and constructions in order to explore those consequences.

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