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Is This Cylinder Left or Right?

By Meadows, Yelena

Book Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Analytical and Visual Understanding of Surface Areas of Cylinders, Spheres, Pyramids and Prisms by Multivariate Calculus Students | Calculus is often viewed as a gateway to more technical college majors, such as engineering, computer science and teaching of mathematics. The high rate of students changing their majors from science-oriented to less mathematically rigorous majors can be observed at any University. Students struggle with passing multivariate content of the calculus college sequence (calculus I, II, and III) in particular, the visual aspect of the course. In the course of semester-long study, observed students divided into three distinct groups according to their mathematical visualization preference and mathematical accuracy characteristics. This book provides an opportunity for mathematics education community to view some of the basic visual mathematical concepts within multivariate context through the students eyes. The results were analyzed through the theoretical frame of Krutetskii (1976), Presmeg s (1985, 1988) mathematical visualization instrument and types of imagery; and Guzman s (2002) types of visualization. In addition, analysis of students errors was made within Donaldson s (1963) classification of errors. | Format: Paperback | Language/Sprache: english | 232 pp.



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