

ZMATH 2002b.01718

Garrity, Thomas A.

All the mathematics you missed. But need to know for graduate school.

Cambridge Univ. Press, Cambridge (ISBN 0-521-79707-1). 347 p. (2002).

Beginning graduate students in mathematics and other quantitative subjects are expected to have a daunting breadth of mathematical knowledge, but few have such a background. The book will help students see the broad outline of mathematics and to fill in the gaps in their knowledge. The author explains the basic points and a few key results of the most important undergraduate topics in mathematics, emphasizing the intuitions behind the subject. The topics include linear algebra, vector calculus, differential geometry, real analysis, point-set topology, differential equations, probability theory, complex analysis, abstract algebra, and more. An annotated bibliography offers a guide to further reading and more rigorous foundations.

Classification: U95