Calculus

Stressing an intuitive rather than rigorous/formal approach to calculus, this student-oriented text covers all of the standard topics. Integration of chapter-end computer exercises and calculator exercises throughout the text and a graphing calculator appendix recognise the impact of technology on calculus. An abundance of interesting applications from engineering, physics, biology, chemistry, economics, astronomy, medicine and pure mathematics shows the far-reaching relevance of calculus. An algebra review is provided in Chapter 10. Numerous examples throughout the text contain all the algebraic steps, with key steps highlighted in colour, needed to complete the solution. The examples are complimented by more than 7,000 section and chapter exercises featuring drill, application, calculator, show/prove/disprove, and challenge problems. Each problem set begins with Self-quiz questions to help students evaluate their understanding of basic ideas in the section. The development of calculus is outlined in extensive historical notes. Biographical sketches impart information on renowned mathematicians.

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