

### Exercises

- 2.1 (a) The  $2 \times 2$  and  $3 \times 3$  discrete derivative matrices can actually be read off from the general form provided there:

$$D_{2 \times 2} = \begin{pmatrix} 0 & \frac{1}{2\Delta x} \\ -\frac{1}{2\Delta x} & 0 \end{pmatrix}, \quad (2.1)$$

$$D_{3 \times 3} = \begin{pmatrix} 0 & \frac{1}{2\Delta x} & 0 \\ -\frac{1}{2\Delta x} & 0 & \frac{1}{2\Delta x} \\ 0 & -\frac{1}{2\Delta x} & 0 \end{pmatrix}. \quad (2.2)$$

- (b) To calculate the eigenvalues, we construct the characteristic equation where

$$\det(D_{2 \times 2} - \lambda I) = 0 = \lambda^2 + \frac{1}{4\Delta x^2}. \quad (2.3)$$

Then, the eigenvalues of the  $2 \times 2$  derivative matrix are

$$\lambda = \pm \frac{i}{2\Delta x}. \quad (2.4)$$

For the  $3 \times 3$  derivative matrix, its characteristic equation is

$$\begin{aligned} \det(D_{3 \times 3} - \lambda I) &= 0 = \det \begin{pmatrix} -\lambda & \frac{1}{2\Delta x} & 0 \\ -\frac{1}{2\Delta x} & -\lambda & \frac{1}{2\Delta x} \\ 0 & -\frac{1}{2\Delta x} & -\lambda \end{pmatrix} \\ &= (-\lambda) \left( \lambda^2 + \frac{1}{4\Delta x^2} \right) - \frac{\lambda}{4\Delta x^2}. \end{aligned} \quad (2.5)$$

One eigenvalue is clearly 0, and the other eigenvalues satisfy

$$\lambda^2 + \frac{1}{2\Delta x^2} = 0, \quad (2.6)$$

and so the  $3 \times 3$  derivative matrix has eigenvalues

$$\lambda = 0, \pm \frac{i}{\sqrt{2}\Delta x}. \quad (2.7)$$

All non-zero eigenvalues are exclusively imaginary numbers.

# Math 202 Solution Manual

**Margaret L. Lial, Nathan P. Ritchey**



## **Math 202 Solution Manual:**

*The New SAT Solutions Manual to the College Board's Official Study Guide* Inc Solutions and Strategic Concepts, 2006-01-10 The College Board's Official Study Guide has the questions and the final answers But they left out the crucial step of how to go from the question to the answer This companion book fills that void Learn from professionals how to quickly get the answer that the College Board wants *Student's Solutions Manual to Accompany Finite Mathematics, Eighth Edition* Margaret L. Lial, Nathan P. Ritchey, 2005 **Student Solutions Manual for Mathematics for Calculus, Second Edition** James Stewart, L. Redlin, Saleem Watson, 1993 This thoroughly revised and expanded edition of Stewart Redlin and Watson's successful text provides a modern approach which emphasizes the process of problem solving taking advantage of new technology graphing calculator or computer and treats the basics in a clear and comprehensive way The authors goal is to help students develop their mathematical thinking stressing understanding over mimicry of techniques The tone examples and explanations all support full understanding of the material Student Solutions Manual for Precalculus Mathematics Tech Laurel Technical Services, 1995-11 *Calculus with Finite Mathematics Student Solutions Manual* Berresford, 1999 Student Solutions Manual for Finite Mathematics Andre L. Yandl, 1991 *A Manual of Practical Mathematics* Frank Castle, 1908 Illustrated Manual in Mathematics for Grades 7 and 8 Chicago (Ill.). Board of Education, 1922 **Finite Mathematics** Karl J. Smith, 1992 Finite Mathematics Third Edition provides the mathematical background for students majoring in business management or life and social sciences Throughout the text Karl Smith emphasizes and enhances students understanding of the modeling process and how mathematics is used in real world applications Smith believes that model building is one of the most important skills that students taking a college mathematics course should learn In his text he teaches modeling as a gradual process with small steps and realistic examples Each chapter concludes with A Modeling Application section These open ended problems require a mathematical model building approach for their development and provide students with either too much information or leave something out Thus students develop skill in knowing what information to include and what information to delete Mathematics Teacher Resource Handbook, 1993 New Horizons in Mathematics and Science Education, 2001 **Notices of the American Mathematical Society** American Mathematical Society, 1982 *Smith's Mathematics* Roberto Smith, Karl J. Smith, 2005-06 Written by author Karl Smith the Student Survival and Solutions Manual provides survival hints as well as detailed and complete solutions to the odd numbered exercises and test questions **Resources in Education**, 1974 **Research in Education**, 1974 **Fundamentals of Mathematics** James Van Dyke, Rogers A. Van Dyke, Van Dyke, Hollis Adams, James Rogers, 1999 This text often a comprehensive review of all basic mathematical concepts and prepares students for further coursework The arithmetic is presented with an emphasis on problem solving skills and concepts with some introductory algebra integrated throughout the text **School Science and Mathematics**, 1928 The American Mathematical

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