#### ERRATA for the Solutions Manual of T. Shifrin's Multivariable Mathematics: Linear Algebra, Multivariable Calculus, and Manifolds

#### Note: All of these have been corrected in the second printing, June, 2017.

Solutions Manual, p. 23, 1.4.28d. There is no Corollary 2.2. One must use the analogous reasoning with the rows of P to deduce that  $PP^T = I$  as well.

Solutions Manual, p. 27, 1.5.4. The vector  $Ab_2 = \begin{bmatrix} a_{11}b_{12} + a_{12}b_{22} \\ a_{21}b_{12} + a_{22}b_{22} \end{bmatrix}$ .

Solutions Manual, p. 40, 2.2.13. min should be max.

Solutions Manual, p. 40, 2.2.14a.  $|x_{k_j} - x_0| \le |b - a|/2^j \to 0$ .

Solutions Manual, p. 71, 3.6.6. In the fourth line from the end,  $\frac{\partial x}{\partial v}$  and  $\frac{\partial y}{\partial v}$  are missing; the third line from the end should be deleted.

Solutions Manual, p. 85, 4.1.21. Delete "A is singular, and so."

Solutions Monual, p. 126, 5.2.14. The upper limit on the summation should be k, not t.

Solutions Manual, p. 138, **5.4.10**. The four critical points on the unit circle should have  $1/\sqrt{2}$  in front of them. Now the maximum occurs at  $\begin{bmatrix} 0 \\ 0 \\ 1 \end{bmatrix}$  and the minimum at  $\pm \frac{1}{\sqrt{2}} \begin{bmatrix} -1 \\ 1 \\ 0 \end{bmatrix}$ .

Solutions Monual, p. 168, 6.2.1d. The entries of the final matrix should be  $-e^{\pi \phi}$  and  $-e^{3\phi}$ .

Solutions Manual, p. 170, 6.2.3c. A minus sign got dropped at the very last entry.

Solutions Manual, p. 170, 6.2.3c. A factor of 1/2 was dropped in computing  $D\psi(\mathbf{x}_0)$ .

Solutions Manual, p. 176, **6.3.10**. We should have  $D\mathbf{F}(\mathbf{p}) = \begin{bmatrix} 2 & 2 & -2 \\ 1 & 1 & -1 \end{bmatrix}$  and, resultingly, the basis for the tangent space should be given by  $\left\{ \begin{bmatrix} -1 \\ 1 \\ 0 \\ 0 \end{bmatrix}, \begin{bmatrix} 0 \\ 0 \\ 1 \\ 1 \end{bmatrix} \right\}$ .

Solutions Manual, p. 184, 7.1.1d. The correct answer is 15/2.

Solutions Manual, p. 184, 7.1.2a. The upper limit on the inner integral should be y.

Solutions Manual, p. 187, 7.2.9.  $0 \le x \le y/2$ , and the correct answer is 32/3.

Solutions Manual, p. 189, 7.2.12c. We should have  $|x| \le z \le 1$ .

## **Algebra Shifrin Solutions Manual**

Strang Strang, Gilbert Strang, Brett Coonley, Andy Bulman-Fleming

#### **Algebra Shifrin Solutions Manual:**

Instructor's Solutions Manual for Linear Algebra Theodore Shifrin. 2001 Multivariable Mathematics Theodore Shifrin, 2004-01-26 Multivariable Mathematics combines linear algebra and multivariable calculus in a rigorous approach The material is integrated to emphasize the role of linearity in all of calculus and the recurring theme of implicit versus explicit that persists in linear algebra and analysis In the text the author addresses all of the standard computational material found in the usual linear algebra and multivariable calculus courses and more interweaving the material as effectively as possible and also including complete proofs By emphasizing the theoretical aspects and reviewing the linear algebra material quickly the book can also be used as a text for an advanced calculus or multivariable analysis course culminating in a treatment of manifolds differential forms and the generalized Stokes s Theorem Algebra Linear Solutions Manual Theodore Shifrin.2001-07-01 Subject Guide to Books in Print ,2001 Multivariable Mathematics, Instructor's Solution Manual Theodore Shifrin, 2003-12-19 Multivariable Mathematics combines linear algebra and multivariable mathematics in a rigorous approach The material is integrated to emphasize the recurring theme of implicit versus explicit that persists in linear algebra and analysis In the text the author includes all of the standard computational material found in the usual linear algebra and multivariable calculus courses and more interweaving the material as effectively as possible and also includes complete proofs Contains plenty of examples clear proofs and significant motivation for the crucial concepts Numerous exercises of varying levels of difficulty both computational and more proof oriented Exercises are arranged in order of Forthcoming Books Rose Arny, 2001-08 Books in Print Supplement ,2002 increasing difficulty Scientific Computing John A. Trangenstein, 2018-05-14 This is the first of three volumes providing a comprehensive presentation of the fundamentals of scientific computing This volume discusses basic principles of computation and fundamental numerical algorithms that will serve as basic tools for the subsequent two volumes This book and its companions show how to determine the quality of computational results and how to measure the relative efficiency of competing methods Readers learn how to determine the maximum attainable accuracy of algorithms and how to select the best method for computing problems This book also discusses programming in several languages including C Fortran and MATLAB There are 80 examples 324 exercises 77 algorithms 35 interactive JavaScript programs 391 references to software programs and 4 case studies Topics are introduced with goals literature references and links to public software There are descriptions of the current algorithms in LAPACK GSLIB and MATLAB This book could be used for an introductory course in numerical methods for either upper level undergraduates or first year graduate students Parts of the text could be used for specialized courses such as principles of computer languages or numerical linear algebra Student Solutions Manual for Linear Algebra with Applications Kyle Burke, Otto Bretscher, 2013 This manual contains completely worked out solutions for all the odd numbered exercises in the text Scientific and Technical Books in Print .1972 **Solutions Manual to accompany** 

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