# 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 Manual, p. 168, 6.2.1d. The entries of the final matrix should be  $-e^{x_0}$  and  $-e^{y_0}$ .

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**

**Howard Anton** 

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

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