

**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  $P^T P^T = I$  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**.  $|x_{k_j} - x_0| \leq |b - a|/2^j \rightarrow 0$ .

*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 Manual*, p. 126, **5.2.14**. The upper limit on the summation should be  $k$ , not  $l$ .

*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  $-e^{p_0}$  and  $-e^{p_0}$ .

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

*Solutions Manual*, p. 170, **6.2.3e**. A factor of  $1/2$  was dropped in computing  $D\psi(x_0)$ .

*Solutions Manual*, p. 176, **6.3.10**. We should have  $DF(p) = \begin{bmatrix} 2 & 2 & -2 & 2 \\ 1 & 1 & 1 & -1 \end{bmatrix}$  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**.  $0 \leq x \leq y/2$ , and the correct answer is  $32/3$ .

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

# Multivariable Mathematics Shifrin Solutions Manual

**Sasha Hu**



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