

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 $|x| \leq z \leq 1$.

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