

VECTOR CALCULUS, LINEAR ALGEBRA, AND DIFFERENTIAL FORMS:
A UNIFIED APPROACH, 4TH EDITION

NEW ERRATA

OCT. 1, 2013

Our thanks to Omar Anjum and Johan De Schrijver for alerting us to these errors.

PAGE 19 Third line: “digit of b_n ”, not “digit of b_k ”.

The next paragraph has been rewritten:

We claim that $b = \sup X$. Indeed, if there exists $y \in X$ with $y > b$, then there is a first k such that the k th digit of y differs from the k th digit of b . This contradicts our assumption that b_k was the largest number (out of 10) such that $X \cap [b_k, a] \neq \emptyset$, since using the k th digit of y would give a bigger one. So b is an upper bound. Now suppose that $b' < b$. If b' is an upper bound for X , then $(b', a] \cap X = \emptyset$. Again there is a first k such that the k th digit of b differs from the k th digit of b' . Then $(b', a] \cap X \supset [b_k, a] \cap X \neq \emptyset$. Thus b' is not an upper bound for X .

PAGE 99 Definition 1.5.31, third line: “for all $\mathbf{x}, \mathbf{y} \in X$ ”, not “for all $\mathbf{x}, \mathbf{y} \in \mathbb{R}^n$ ”.