

**Changes for the 3rd printing of *A Friendly Intro. To Analysis* Second Edition,
by Witold A.J. Kosmala (Jan. 2006)**

On p. 31, in Exercise 7(f), change “ $a_{n+1} = \left[1 - \frac{1}{(n+1)^2}\right]$ ” to “ $a_{n+1} = \left[1 - \frac{1}{(n+1)^2}\right]a_n$ ”.

On p. 83, in the last line of the proof of Example 2.3.5, change the last “if” to “for all”.

On p. 110, delete all text above the Exercises 2.6.

On p. 110, in Exercise 2(c), change “0” to “-1”.

On p. 110, add the following 3 exercises.

9. Use subsequences to find the limit of the sequence $\{a_n\}$ with a_n as given

(a) $a_n = \sqrt[n]{c}$, with any constant $c \in (0,1)$. (See Exercise 14 from Section 2.1.)

(b) $a_n = r^n$, with any constant $r \in (0,1)$. (See Exercise 2(c) above and Theorem 2.1.13.)

(c) $a_1 = 1$ and $a_{n+1} = \sqrt{2a_n}$ for all $n \in \mathbb{N}$. (See Exercise 11(c) of Section 2.4.)

10. Complete the proof in Example 2.6.6.

11. Complete the proof in Theorem 2.6.4.

On p. 126, delete everything above Definition 3.2.1.

On p. 305, in part (a) of Theorem 7.2.4 change “ \geq ” to “ \leq ”.

On p. 317, the last word is “series”.

On p. 383, heading for the Section 9.1 three lines from the bottom should have \mathfrak{R}^3 instead of \mathfrak{R}^2 .

On p. 386, in first line, change to $\bar{k} = \langle 0, 0, 1 \rangle$.

On p. 387, capitalize the first word in the last paragraph.

On p. 404, in first line, change $\overline{P_0P}$ to $\overline{P_0P_1}$.

On p. 404, in indented line 6, change $-8x + 13y + 3k$ to $-8x + 13y + 3z$.

On p. 406, in tenth line from the bottom, change $-L_1$ to $=L_1$.

On p. 408, in 12th line from the bottom, add “ $\vec{r}(t)$ ” between the words “if” and “represents”.

On p. 416, in the 5th line from the bottom, there should be “ $\vec{r}'(t)$ ” inside the integral instead of “ $\vec{r}(t)$ ”.

On p. 417, in the 3rd line from the top, there should be “ $\vec{r}'(t)$ ” inside the integral instead of “ $\vec{r}(t)$ ”.

On p. 418, last line before Example 9.7.5, change “See Exercise 15.” to “See Exercise 10 in Section 9.8.”

On p. 449, 2nd line above Example 10.3.2, change “ration” to “ratio”.

On p. 452, in the second line, change “very like” to “very much like”.

On p. 536, in Exercise 10, change “part (f)” to “part (c)”.

On p. 543, answer to Exercise 20(b) in Section 5.4 should be actually 20(c). Corrected answer is

$$“p_n(x) = 1 - \frac{x^2}{2!} + \frac{x^4}{4!} - \frac{x^6}{6!} + \cdots + (-1)^{n/2} \frac{x^n}{n!}, n = 0, 2, 4, \dots;”.$$

On p. 552, answer to Exercise 4 in Section 9.1 should be “ $2x - 2y - 14z = -23$ ”.