

## Typos in *Fundamental Ideas of Analysis*

- There are three places on pages 90-91 where  $[x_i, x_{i-1}]$  should be replaced with  $[x_{i-1}, x_i]$ .
- In the proof of Theorem 3.3.3 on page 92, the reference to equation (14) should be replaced with a reference to equation (13).
- In the proof of Theorem 4.2.4 on page 131, the reference to equation (4) in “The sum (4) is a Riemann sum for  $\int_a^b f'(x)dx$ ” should be replaced with a reference to equation (6).
- In the proof of Theorem 4.5.4 on page 149, in one place  $[x_i, x_{i-1}]$  should be replaced with  $[x_{i-1}, x_i]$ , and in one place  $[t_i, t_{i-1}]$  should be replaced with  $[t_{i-1}, t_i]$ .
- In the statement of Theorem 4.5.5, function  $f$  should be a continuous function defined on the finite interval  $[\phi(a), \phi(b)]$  (not  $[a, b]$ ).
- In Section 5.6 #9, the definition given for a limit point is incomplete. The definition should instead be the following: “A point  $d \in M$  is called a **limit point** of a sequence  $\{x_n\}$  if for every  $\epsilon > 0$  and integer  $N$ , there is an  $n \geq N$  so that  $\rho(d, x_n) \leq \epsilon$ .” Compare the definition on page 56.
- In the statement of Theorem 6.1.1(b), the equation  $a_n \leq \bar{s} + \epsilon$  should be replaced with  $a_n \leq \underline{s} + \epsilon$ .
- In Problem 6.1 #6, the case where (for example)  $\limsup a_n = \infty$  and  $\limsup b_n = -\infty$  needs to be ruled out in order for the righthand side  $\limsup a_n + \limsup b_n$  to make sense.