

- **Page 6, near the middle:** The definition of  $[a, b)$  should be

$$[a, b) = \{x : a \leq x < b\}.$$

- **Page 8, Example, first line:**  $2^1$  should be equal to 2, not 1.
- **Page 46, Problem 13:** The definition of  $g$  should be  $g(x) = \sqrt{x} - 2/\sqrt{x}$ .
- **Page 51, Exercises 1.8, Problem 9:** This is false for  $n = 1$ , so either  $n$  needs to be restricted to  $n \geq 2$ , or the inequality should be changed to “ $\geq \sqrt{n}$ .”
- **Page 60, Figure 2.1.14:** The graph should show an open circle at  $(0, 1)$ , because  $f(0)$  is not defined.
- **Page 74, Theorem 2.3.2:** The statement of part (iii) should read as follows:  
 (iii)  $\lim_{x \rightarrow c} [\alpha f(x)] = \alpha L$ ,  $\alpha$  a real number.
- **Page 83, just below Figure 2.4.3:** The definition of the Dirichlet function should be

$$f(x) = \begin{cases} 1, & x \text{ rational,} \\ 0, & x \text{ irrational.} \end{cases}$$

- **Page 96, multiline display:** On the second line,  $\tan^2 x - 1$  in the denominator should be  $\tan^2 x$ .
- **Page 105, Figure 3.1.1:** The caption on the right-hand side should be  $h < 0$ , not  $h > 0$ .
- **Page 117, 5th line of the proof:** In the second set of brackets, change  $f(x - h)$  to  $f(x + h)$ .
- **Page 129, problem 61:** The problem should say that  $n$  is a positive integer.
- **Page 141, 4th displayed equation:** The arrow should point to the second equal sign, not the first.
- **Page 146, problem 67:** Change “Exercise 62” to “Exercise 59.”
- **Page 243, last line:** Instead of  $\frac{137}{16} \cong 8.5625$ , it should say  $\frac{137}{16} = 8.5625$ .
- **Page 252, Problems 14 and 15:**  $L_f$  and  $U_f$  are printed in the wrong font: They should be ordinary italics, not script letters.
- **Page 281, proof of (5.8.3), first line:** Change “ $f(x) - f(x)$ ” to “ $g(x) - f(x)$ .”
- **Page 410, Exercise 78(b):** There’s a sign error in the last term of the formula. It should be

$$f(b) - f(a) = f'(a)(b - a) + \frac{f''(a)}{2}(b - a)^2 + \int_a^b \frac{f'''(x)}{2}(x - b)^2 dx.$$

- **Page 514, formula (10.7.6):** The formula should have  $ds/dt$  in place of the first  $dx/dt$ :

$$v = \frac{ds}{dt} = \sqrt{\left(\frac{dx}{dt}\right)^2 + \left(\frac{dy}{dt}\right)^2}.$$

- **Page 516, Problem 38:** should read “from time  $t = 0$  to time  $t = 2\pi$ ” (not  $t = 2t$ ).
- **Page 530, Example 1(a):** The condition on  $s$  should read

$$1 - 0.0001 < s \leq 1.$$

- **Page 613, Problem 66:** The formula for  $s_q$  should be

$$s_q = \sum_{k=0}^q \frac{1}{k!}.$$

- **Page A-16, solution to Problem 41:**  $\text{range}(f) = \{-1, 1\}$ .
- **Page A-24, solution to Section 3.6 Problem 67(b):** There's a sign mistake in the last term. But more importantly, this argument is misleading, because you cannot conclude that the limit of a difference is the difference of the limits unless you know that both limits exist. Instead, this should be read as an argument by contradiction: assuming that  $g'(x)$  is continuous, it then follows from this computation that  $\cos(1/x)$  has a limit as  $x \rightarrow 0$ , which is false.