
ERRATA
FOR
Shahriar Shahriari, *Approximately Calculus*, AMS, 2006.

Page xv, line 3, replace 7–1 with 7–11.

Page 9, line -17, replace $1 + 2 + \cdots + (2k + 1)$ with $1 + 3 + \cdots + (2k + 1)$

Page 78, line -3, replace *derivate* with *derivative*

Page 79, in the table when calculating the percent error, the role of f and g have been reversed. The percent errors in the last column should be -.02%, -11.75%, and -257.90%.

Page 83, Problem 4.3.12(d), replace *As x approaches 0* with *As x approaches 2*.

Page 83, Problem 4.3.13(e), replace *as x approaches zero?* with *as x approaches two?*

Page 121, line -8, replace *Using property (c) again we can* with *We can*.

Page 123, Problem 7.3.6(d), insert *at $x = 0$* at the end of the sentence.

Page 143, line 17, replace *an* with *and*.

Page 157, line -1, replace each \leq with $<$. Page 158, Figure 10.2, the labels for the coordinate axes are switched; x and y should be interchanged.

Page 165, in Equation (10.5) the indices for c_i are shifted by 1. Replace $(x_1 - x_0)\sqrt{1 + f'(c_1)^2} + (x_2 - x_1)\sqrt{1 + f'(c_2)^2} + \cdots + (x_n - x_{n-1})\sqrt{1 + f'(c_n)^2}$ by $(x_1 - x_0)\sqrt{1 + f'(c_0)^2} + (x_2 - x_1)\sqrt{1 + f'(c_1)^2} + \cdots + (x_n - x_{n-1})\sqrt{1 + f'(c_{n-1})^2}$.

Page 170, line 20, a dx is missing. Replace $\frac{3}{2} \int \frac{1}{x+1}$ with $\frac{3}{2} \int \frac{1}{x+1} dx$.

Page 171, Problem 11.2.2, a dx is missing. Replace $\int (3x-14)\sqrt[3]{4+x}$ with $\int (3x-14)\sqrt[3]{4+x} dx$.

Page 183, line 17, replace *an antiderivative for f* , with *an antiderivative for f'* ,

Page 185, Problem 13.1.3, part (b)(iv) replace *part (c)* with *part (iii)*

Page 190, Equation 13.3, in the denominator, the second left paranthesis “(” should be eliminated.

Page 207, line -5, replace *one its base* with *one, while its base*.

Page 209, line 8, replace (the last) \leq with \geq .

Page 229, line -4, replace *absolutely convergent sequences* with *absolutely convergent series*.

Page 229, line -3, replace *Problem 15.2.20 in* with *Problem 15.2.20—in*.

Page 240, Problem 15.5.9, replace $\int_0^1 \frac{\sin(\ln x)}{\ln x}$ with $\int_0^1 \frac{\sin(\ln x)}{\ln x} dx$ in *three* instances!

Page 240, line 11, delete the word *power*.

Page 256, Problem 17.1.11, in Step 1 and Step 2, the ϵ and δ s are quite mixed up! In Step 1, there are two instances of $0 < |x - \alpha| < \epsilon$. The ϵ should be replaced with δ_1 in the first instance and with δ_2 in the second instance. In the second line of Step 2, replace both δ s with $\epsilon/2$ and replace ϵ with δ .

Page 257, Problem 17.1.13, replace $\delta = \frac{1}{m}\epsilon$, with $\delta = \frac{1}{|m|}\epsilon$,

Page 266, line -2, replace $\theta(t) - T$ with $T - \theta(t)$.

Page 268, line -8, replace *of your k th plot.* with *of your k th plot).*

Page 275, line 12, replace .. with one period.

Page 284, entry [36], the author's name is *George B. Thomas, Jr.*, and the entry is out of alphabetical order.

Page 284, entry [47], replace *fermat's* with *Fermat's*.