*Rogawski's Calculus for AP**

Jon Rogawski and Ray Cannon

ERRATA

Page 47, #23. In question, "sketch the graph" should be changed to "sketch of the graph."

Page 57, #63b. Part (b) should read: "Show, by evaluating *f(x)* at $x = \pm\frac{1}{2}, \pm\frac{1}{4}, \pm\frac{1}{6} \ldots \ldots$"

Page 87, #34. In the second line, "$(1-10^{-0.13t})$ kelvins" should read "$(1-10^{-0.013})$ kelvins."

Page 118, #41. "r=4" should be changed to "t=4."

Page 156, #88. Problem should read: "$\sin \pi\ g(x),\ x = 4$."

Page 182, #35b, Figure 9. "dx" should be changed to "h."

Page 226, #56d, Figure 30. Pink line should continue to origin.

Page 279, #54. Problem should read: "Use the result of Exercise 53 to calculate $\frac{d}{dx}\int_{\frac{1}{\sqrt{x}}}^{\sqrt{x}} \sin t\ dt$".

Page 291, #49. Problem should read: $\int \frac{\sin x \cos x}{\sqrt{\sin x + 1}}\, dx$

Page 320, #5, Replace "$x^2 - 3x$" with "$3x - x^2$."

Page 321, #53. The following sentence should be inserted at end of question: "The inner radii (in cm) starting from the top are 0, 4, 7, 8, 10, 13, 14, 20.
#53, Figure 14b. Labels and tick marks at bottom of graph should be deleted and replaced with a single tick mark labeled "20."

Page 334, #9. Change "N/m" to "$N/m^{1.1}$" and change "stretch a spring" to "stretch the spring."

Page 335, #38c."1.5m to 1.2m" should read "0.8m to 0.5m."

Page 387, in callout on left, “Comapanion” should read: “Companion.”

Page 397, #62. First part of problem should read: “$\int_{-1/5}^{1/5}$ ”

Page 425, #56. First part of problem should read: “$\int_{\pi/4}^{3\pi/4}$

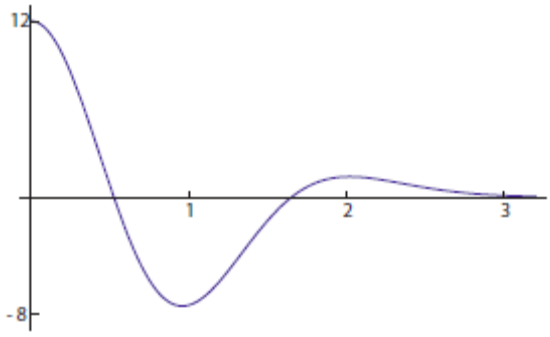
Page 437, #44c. “Hint: refer to Theorem 1 in Section 7.4” should be added to end of question.

Page 442. Replace equation in middle of the page directly beneath “For example,” with:

$$\frac{4-12x}{(x+1)(x^2+x+4)^2}=\frac{1}{x+1}-\frac{x}{x^2+x+4}-\frac{4x+12}{(x^2+x+4)^2}$$

Page 455, Exercises, #1a. The “*dx*” at end of equation should be deleted.

Page 473, #44. Figure 18 should be:



Page 476, #70. “*t*” in both exponents’ fractions should be “*x*”.

Page 476, #72. “*p(x)*” should be “*p(t)*”.

Page 497, #33. “Find the centroid **for**…” should read: “Find the centroid **of**…”

Page 573, Change directions above #49 from “*In Exercises 49-74*” to “*In Exercises 49-78*.”

Page 644, Preliminary Exercises, #3a. Box should be Delta symbol.

Page 747, Exercises, #5b. Prompt should read: “Show that *f* has three critical points where $x=0$ or $y=0$ (or both) and one critical point where *x* and *y* are nonzero.”
Exercises, #5c. Prompt should read, “Use the Second Derivative Test to determine the nature of the critical points.”

Page 758, #27. In the denominator of the equation, d^2 should be c^2.

Page A44, #57. Delete question.

Page A78, Section 7.8, #53. The answer should be $7\text{-}3\pi$.

Page A79, Section 7.9, #15. In the numerator of the solution, csch t^2 should be $\text{csch}^2 t$.

Page A80, Chapter 7 Review, #103-107. #107 should be #103, #103 should be #105, and #105 should be #107.
The values in old #107 (new #103) should be \$1,131,361.78 and 10.13% (replacing \$1,134,704 and 10.66%).