ERRATA TO APEX LT

The following errors exist in the in June 2021 printed version of Apex LT Calculus II:

(1) §7.1#5 p348: The solution's line segment should go through $(5, -2)$.

(2) §7.3 Example 7.3.3#3 p361: The C disappears at the end.

(3) §7.4 Key Idea 7.4.4#1 p371: $\cosh^{-1}$ is only defined for positive arguments, so we don't need the absolute value.

(4) §7.5 Example 7.5.1#3 p377: We need to have a $\lim_{x \to 0}$ in front of the $\frac{2}{\cos x}$.

(5) §8.2 Key Idea 8.2.2#4 p400: $\tan^{m-2} x$ is missing its x.

(6) §8.3 Example 8.3.2 p409: "Key Idea 8.3.1(b)" should be "8.3.1(2)".

(7) §8.3 Example 8.3.3 p410: "Key Idea 8.3.1(c)" should be "8.3.1(3)".

(8) §8.3 Example 8.3.5 p412: "Key Idea 8.3.1(b)" should be "8.3.1(2)".

(9) §8.6 p436: "An improper integral is said to **converge** if its corresponding limit exists" *and is finite*.

(10) §8.7 p456 Theorem 1: The variable n is representing two different things. For that matter, so is M.

(11) §9.1 p466: We haven't stated a Squeeze Theorem for sequences.

(12) §9.2 Theorem 9.2.1 p479: We need to specify that $a \neq 0$.

(13) §9.3 p490: $[n, \infty]$ should be $[n, \infty)$.

(14) §9.4 p497: "For $n \geq N$, We're now" should be lowercased.

(15) §9.4 Example 9.4.2 p498: The stated inequality should be for all $n \geq 2$.

(16) §9.4 Example 9.4.3 p500: "Harmonic Sequence" should be "Harmonic Series".

(17) §9.7 p523 #6: If the terms contain a factorial, then the divergence test might work. (The root test is also a possibility, if you believe Knewton.)

(18) §9.9 p546: "pattern that make their formation" should be "makes".

(19) §9.9 Theorem 9.9.1 p549: The theorem defines $R_n(x)$ and should be stated as such.

(20) §9.9 Example 9.9.3#1 p550: The seventh derivative is $y = +6!/x^7$.

(21) §9.9 Example 9.9.3#2 p550: "[1,2] again" should be "[1,2] is again".

(22) §9.9 Example 9.9.3#2 p550: $720/5040 \approx 1/7$, with subsequent changes.

(23) §9.9 Example 9.9.4 p552: "guarantee" should be "guarantees".

(24) §9.10 p557: "not the case" should be "not necessarily the case".

(25) §9.10 Example 9.10.6 p562: The Taylor expansion for $\ln x$ given in Key Idea 9.10.1 is centered at $x = 0$. We can use Theorem 9.10.2 with $h(x) = x - 1$.

(26) §10.1 p580: The surface area approximation is not actually a Riemann Sum, because we use two different points in the same interval.

(27) §10.2 Example 10.2.13 p594: "on a wheel of radius r as starts rolling" should be "as it starts rolling".

(28) §10.3 p608: "the parametric equation defining these curves" should be "equations".

(29) §10.4 Figure 10.4.4: A ray for $-\pi/4$ should be in the fourth quadrant.

(30) §10.4 Example 10.4.3 p615: $\tan \pi/4$ should be $\tan(\pi/4)$.

(31) §10.5 Example 10.5.2 p627: "in polar," should be "in polar coordinates,".

(32) §10.5 Example 10.5.7 p632: $1 + 2\cos\theta + \cos\theta$ should have $\cos^2\theta$.

(33) At the back of the book, integration rule #2 should enclose its integrand in parentheses, and #23 should have $a > 0$ or use $|a|$.