Errata for

Mathematics by Experiment: Plausible Reasoning in the 21st Century

and

Experimentation in Mathematics: Computational Paths to Discovery

CD-ROM Edition (Mar 2006) Copyright 2006

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Since the release of the CD-ROM of our books in March 2006, a number of colleagues have graciously provided reports of various errors and glitches. We list here those errors that we regard as serious enough to possibly impede the understanding and/or usage of this material. This and others we hope to address when the CD-ROM is redone.

1. Vol. 1, page 52, center: The 2 at the start of the second line of this constant is redundant with the 2 at the end of the previous line and should be omitted.

2. Vol. 1, page 63, eqn 2.25: This should read $a_n = \lfloor \tau(2^{(n-1)/2} + 2^{(n-2)/2}) \rfloor$.

3. Vol. 1, page 77, Problem 15. The second answer should read $\sqrt[3]{\frac{3}{2}\sqrt[3]{9} - 3/2}$.

4. Vol. 1, page 90, top. The ? in the formula for $V/\sqrt{3}$ is not required in this part.

5. Vol. 1, page 91, in 35(d), near top: L_2 should be Li_2.

6. Vol. 1, page 92, in 35(e), near top: the factor of 2 in the first expression for V should be deleted.

7. Vol. 1, page 207, item 4 (a). The expression here should read: $\Psi(n) = \sum_{k=1}^{n-1} -\gamma$. In part (b), the LHS should read: $\Psi(-z) - Psi(z)$.

8. Vol. 2, pg. 61, Item 45: The fraction 2/45 should be replaced by 8/45 in two places.

9. Vol. 2, pg. 248: The entry "186" in the list at the top of the page should read "86."

10. Vol. 2, pg. 322: There are some mistakes in these summation problems: In item (d) the denominator is $4^{4n}n!^4 3^{2n+1}$. In items i, j and k, the sums start at 1, not zero. In the second summation of item (m), the denominator is $2n^2 16^n$. Finally, in the answers section, the answer to item (i) is $-45\pi - 1164$, and the answer to item (m) is $-\pi^2/18 + \log^2 2 - \log^2 3/6$.