

ALGEBRA 2 – 1.0 - ERRATA

June 25, 2014

Errors in the current edition:

- Problem Set 35, Problem 24 – On the CD solution, the fourth line on the second page should read, “ $-0.03x = -450$.”
- Lecture 39 – On the CD, the first sentence on page 14 should read, “Fractional exponents also help us divide roots that couldn’t be divided otherwise.”
- Lecture 43 – The second line of the ninth page of the CD lecture should read, “We have to try both $(8x+?)(x+?)$ and $(4x+?)(2x+?)$.” Also, when the lecturer is talking about integer pairs, he should refer to $(4x+?)(2x+?)$.
- Problem Set 50, Problem 5 – On the solution, the answer should be “ $2\sqrt{2} + \sqrt{3}$.”
- Problem Set 66 – The problem set should have 21 solutions on the CD.
- Lecture 70 – On page 5 of the lecture, the lecturer refers to $\frac{7}{2}$ as “seven and a half.” The text is correct and the teacher should say “seven halves.”
- Problem Set 92, Practice D – On the CD solution, the points that determine the left and right sides of the box on the second page should be (0,1) and (6,1). It is eventually corrected on the solution.
- Lecture 94 – On the CD, the speaker should read the third expression on page 3 as, “x cubed plus three x squared y plus three x y squared plus y cubed.”
- Problem Set 109, Problem 6 – The answer in the answer key should be “ $(x+y)(x+y)$ or $(x+y)^2$.”
- Problem Set 115, Problem 6 – The problem in the textbook should be “ $\frac{4-y}{y^2+7y+6} + \frac{2}{y+6}$.”

Errors that occurred in old printings:

- Textbook – All the “ALGEBRA 2: A TEACHING TEXTBOOK” headers should be on even numbered pages.

- Lesson 7, Page 42 – In the textbook, the second to last sentence of the second to last paragraph should read, “So the momentum of the bowling ball is -28 and the momentum of the billiard ball (with its positive velocity) is +2.6.
- Lesson 25, Page 152 – In the textbook, the third block of text should be written,

The basic rule to remember when combining powers, then, is that the x 's must have the same exponent. Powers with x 's that have the same exponent are called like terms, by the way. You probably remember that from Algebra 1. So $2x^2$ and $7x^2$ are like terms.

Another way to state the basic rule for adding and subtracting powers is that only like terms can be combined: only x^2 's with x^2 's, only x^3 's with x^3 's, only x^4 's with x^4 's, and so on. Of course, it works the same way if, instead of an x , the base is some other letter like y or z .
- Problem Set 26, Problem 6 – In the CD solution, the answer should be “32.”
- Lesson 28, Page 168 – In the textbook, the first fraction and the block of text beneath it should read,

$$\frac{5^6}{2^3}$$

The subtracting exponents shortcut won't work here, because the factors on top are all 5s and the factors on bottom are all 2s. If we tried to reduce the fraction the long way, by factoring and canceling, there wouldn't be anything to cancel. That's why the bases have to be the same to divide powers by subtracting the exponents.

- Lesson 41, Page 242 – In the textbook, the story problem underneath the picture should read, “A housing developer is planning to build 8 houses, each one on a square-shaped piece of land called a ‘lot.’ Three of the lots are exactly 1 acre in size, and the other 5 lots are larger (and of equal size). If the total area of all 8 lots is 23 acres, what are the dimensions of each of the larger lots?”
- Lesson 41, Page 243 – In the textbook, the block of text at the top of the page should read, “The area of a square is the length of its sides squared. That means each larger lot has an area of x^2 . Since there are 5 of those, the area of all the larger lots is $5x^2$. Each smaller lot has an area of 1 acre, so the area of all three is 3 acres. The total area of all 8 lots is 23 acres. That gives us the following equation.”
- Problem Set 43, Problem 4 – The answer in the answer key should be “-18.24.”
- Problem Set 50, Problem 5 – The answer in the answer key and on the CD should be “ $2\sqrt{2} + \sqrt{3}$.”

- Lesson 51, Page 298 – In the textbook, the second sentence of the last block of text should read, “We can factor $\sqrt{56}$ as $\sqrt{4 \cdot 14}$.”
- Lesson 58, Page 335 – In the textbook, the third sentence of the fourth text block should read, “Of course, $\sqrt{-16}$ can be simplified to $\sqrt{16} \cdot \sqrt{-1}$ or $4i$.”
- Lecture 59 – On the CD, on the last page of the lecture, the first sentence should read, “If $b^2 - 4ac$ is positive, the solutions are real numbers,” and the audio should adjust to fit that change.
- Problem Set 63, Problem 5 – The answer in the answer key and on the CD should be $\frac{\sqrt{14}}{7}i$.”
- Problem Set 64, Problem 3 – The answer in the answer key should be “-0.29.”
- Problem Set 78, Practice E – In the textbook and CD solution, the second sentence of the problem should read, “Months later, when the Center for Auto Safety reported that the model of car which Ray owns had a ‘sudden acceleration defect’ (this is an actual problem that occurs when a car lurches forward at high speeds without the driver causing it to), his car’s value went down by another 50% (from the new lower price).
- Problem Set 82, Problem 5 – In the textbook, the problem should be “ $[-7 - (-4)]^3 + 2^4$.”
- Problem Set 85, Problem 9 – The answer in the answer key should be $\frac{3x}{2x+1}$.”
- Problem Set 89, Problem 20 – The answer in the answer key should be “ $y - 5 = 2(x - 3)$ or $y - 1 = 2(x - 1)$.”
- Problem Set 96, Problem 2 – In the textbook, the problem should be $\frac{3[5 - (-2)]^2}{7^1}$.”
- Problem Set 97, Problem 9 – The answer in the answer key should be “ $(x+c)(x+c)$ or $(x+c)^2$.”
- Problem Set 97, Problem 10 – The answer in the answer key should be “ $(y-b)(y-b)$ or $(y-b)^2$.”
- Problem Set 98, Problem 6 – The answer in the answer key should be “ $(x-y)(x-y)$ or $(x-y)^2$.”

- Problem Set 99, Problem 7 – The answer in the answer key should be “ $(y+z)(y+z)$ or $(y+z)^2$.”
- Problem Set 100, Problem 7 – The answer in the answer key should be “ $(x-y)(x-y)$ or $(x-y)^2$.”
- Problem Set 101, Problem 7 – The answer in the answer key should be “ $(a+b)(a+b)$ or $(a+b)^2$.”
- Problem Set 102, Problem 7 – The answer in the answer key should be “ $(y-b)(y-b)$ or $(y-b)^2$.”
- Problem Set 103, Problem 6 – The answer in the answer key should be “ $(p+q)(p+q)$ or $(p+q)^2$.”
- Problem Set 105, Problem 8 – The answer in the answer key should be “ $(y-z)(y-z)$ or $(y-z)^2$.”
- Problem Set 106, Problem 6 – The answer in the answer key should be “ $(u+v)(u+v)$ or $(u+v)^2$.”
- Problem Set 107, Problem 8 – The answer in the answer key should be “ $(r-s)(r-s)$ or $(r-s)^2$.”
- Problem Set 108, Problem 4 – The answer in the answer key should be “ $(a+b)(a+b)$ or $(a+b)^2$.”
- Problem Set 117, Problem 11 – In the textbook, the problem should be “ $(x-1)^2 + (y+4)^2 = 9$.”
- Problem Set 117, Problem 18 – The answer in the answer key should be “ $x \leq -3$ or $x \geq -1$.”
- Problem Set 118, Problem 3 – The answer in the answer key should be “ $(a-b)(a-b)$ or $(a-b)^2$.”
- Problem Set 118, Problem 17 – The answer in the answer key should be “ $y < -10$ or $y > 1$.”
- Problem Set 119, Problem 16 – The answer in the answer key should be “ $x = -3, y \geq 3$.”

- Problem Set 121, Problem 6 – In the textbook, the problem should be

$$\text{“} \frac{2x + y}{2x^3 - 5x^2 - xy^2 + y^3} \text{.”}$$
- Problem Set 121, Problem 21 – In the textbook, the problem should be $\begin{cases} y \geq -2x + 4 \\ y \leq -2x - 3 \end{cases}$.
- Problem Set 124, Problem 11 – The answer in the answer key should be “ $V = 268.16$.”
- Problem Set 130, Problem 5 – The answer in the answer key should be
 Domain = all real numbers
 Range = all real numbers less than or equal to 0
- Chapter 2 Test, Problem 25 – In the test bank, the problem should not be listed with an (e) reference next to it.
- Chapter 11 Test, Problem 20 – The answer in the answer key should be “ $y = \frac{-x + 12}{2}$.”
- Chapter 12 Test, Problem 18 – In the test bank and CD solution, the problem should be

$$\text{“} \frac{(x-2)^2}{5^2} + \frac{(y-2)^2}{3^2} = 1 \text{.”}$$
- Chapter 13 Test, Problem 17 – The answer in the answer key should be

$$\text{“} +\sqrt{13}i - 6, -\sqrt{13}i - 6 \text{.”}$$
- Chapter 15 Test, Problem 5 – In the test bank, the expressions should be

$$\text{“} 9a^2 - 25b^2 \text{ and } (3a - 5b)^2 \text{.”}$$