

Algebra 2 and Algebra 2 Honors Corrections (Blue Cover)

Please note: The 2005 edition of Algebra 2 includes extra practice sheets. Your Teacher Manual and Student Text should have the same color cover. If you are using the older edition of Algebra 2 with the orange cover, please be aware that the corrections on this page follow the new system of lettering. Here's a chart to help you translate if necessary: Scroll down to find corrections for the earlier edition of Algebra 2.

Orange Cover	Blue Cover
Practice Sheet A	Lesson Practice A
Practice Sheet B	Lesson Practice B
A	Systematic review C
B	Systematic review D
C	Systematic review E
D	Online only
	(See mathusee.com/downloads.html)

Teacher Manual

Lesson 5-4 Top of page, first sentence should end with (4^2)

Lesson 5-6 Example 4: $X \neq 0$ or -1

Lesson 5-6 Example 6: $X \neq 4, 0,$ or -1

Lesson 5-7 Solution to Practice Problem 1: $x \neq -1, 0$

Lesson 5-7 Solution to Practice Problem 4: $x \neq 2, -3, -4, -5$

Lesson 25-2 Bottom of page: If there are 9 items, disregard item 6

Lesson 26-1 solution for #6 - graph should be on X axis

Solution for 2B #16 final answer should read: $\frac{X^2 + X + 3Y^2}{Y(X + 1)}$

Solution for 2D #20 should read: $B(6 + 6)^2 + |100 \square t^2| \square 14 = 5 \square 19 + 4$

$$B(12)^2 + |99| \square 14 = 45 + 4$$

$$144B + 99 \square 14 = 49$$

$$144B + 85 = 49$$

$$144B = \square 36$$

$$B = \square \frac{1}{4}$$

Solution 3E #16 reduces to $(1 + 2Y)/XY$

Solution for 5B-1 #5 should have $-(4)(X + 2)$ as the numerator of the second term

Solution for 5B-2 #7 should have $A+B$ in the denominator of the final answer

Solution for 5E #19: should have 1×10^{13} in denominator of second line

Solution for 6D #19: middle step of solution should not have radical sign in denominator

Solution for 8A #14: should have $8 + 2\sqrt{2}$ in numerator of final answer

Solution for 10E #13: numerator of final answer should be $10\sqrt{14} + 8\sqrt{2}$

Solution for 11A #4: should say 30A

Solution for 11C #8: $(-5 + \sqrt{22})^2 + 10(-5 + \sqrt{22}) + 3 = 0$

$$25 - 10\sqrt{22} + 22 - 50 + 10\sqrt{22} + 3 = 0$$

$$(-5 - \sqrt{22})^2 + 10(-5 - \sqrt{22}) + 3 = 0$$

$$25 + 10\sqrt{22} + 22 - 50 - 10\sqrt{22} + 3 = 0$$

Solution for 11D #12: $X^5 - 10X^4A + 40X^3A^2 - 80X^2A^3 + 80XA^4 - 32A^5$

Solution for 12C #8: Denominator of last fraction on first line should be 16

Solution for 12E #2: second line should read $(X - 4)(X - 2) = 0$

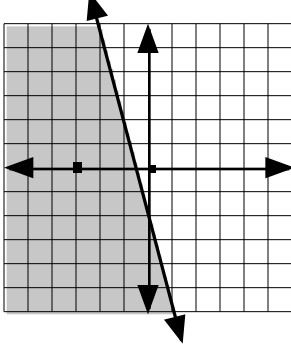
Algebra 2 Corrections
(Blue Cover), continued

Solution for 15D #19: in numerator of last fraction on first line, 3 should not be crossed out

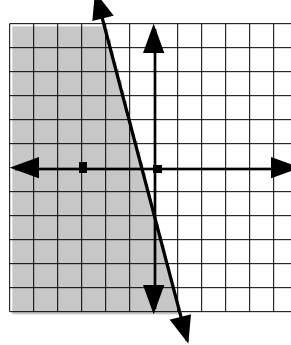
Solution for 16D # 8: denominator of fraction on line 2 should be 70

Solution for 19 B #1 should have 28 minutes as the final answer

Solution for 21A # 13:



Solution for 21B # 13:



Solution for 21C #16. answer should be in square yards, not cubic yards

Solution for 23D #2 and #4: circle on the left is for number 4, circle on the right is for number 2

Solution for 23D and E #8 and #9: solutions are reversed in some books

Solution for 27A #3 second line, after arrow should say $-4X^2$

Solution for 31A #8 $H = 107.7$

Solution for 31B #7 $180 - 5.7 = 174.3^\circ$ for direction of vector

Solution for 31C #2 $\tan \square = 5/3 = 1.666$; $\square = 59.0$

Solution for 31D #2 $\tan \square = 8/5 = 1.6$; $\square = 59.0$; $\square = 122.0$

Solution for Test 1 #6: Explanation for answer A should read $0^5 = 0$

Solution for Unit Test 1 #10: first term is 4.55, so first part of answer is 9.555

Solution for Unit Test I, question 35: should be $\frac{\square 5D^3}{2}$

Solution for Final Exam, question 22. answer should be based on 45%, not 55%
answer: 70 of 60% and 30 of 10%

Student Book

Systematic Review 4D #5 should read $\frac{4\sqrt{48}}{\sqrt{8}}$

Systematic Review 4D #8 should read $6\sqrt{125}$

Systematic Review 11D #12 should read $(X - 2A)^5$

21 C # 16: Problem should read: $3 \text{ mi}^2 = \underline{\hspace{2cm}} \text{ yd}^2$

Lesson Practice 17A #1 should read: $156 \text{ inches} = \underline{\hspace{2cm}} \text{ feet}$

Systematic Review 19E # 6-8 The question should ask how many hours Gerry drove on the first day, and how many hours the team drove on the second day.

Honors

Lesson 15 #4 should say "Solve for P."

Lesson 18 #4 volume of sphere is $\frac{4}{3} \square r^3$ (cubed, not r squared)

Solution for lesson 1 #6 should be $C = 10$

Solution for Lesson 7 #6 is $(XY)^{FG}$

Solution for Lesson 7 #7 exponent should be $x+y / y$

Solution for Lesson 18 #4

$$\frac{4}{3} \square (X+2)^3 =$$

$$\frac{4}{3} \square (X^3 + 6X^2 + 12X + 8)$$

Solution for Lesson 23 #3: numerator should be $E + C$

Algebra 2 Corrections 2004

Teacher Manual

Page 7-2 Solution to problem 6 2nd step: last term should be $\sqrt{-1}$

Page 11-3 Example 12, step 4: Last term should be $\pm\sqrt{5}$

Page 11-3 Example 13, steps 4 and 5: Last term should be $\pm\sqrt{\frac{17}{4}}$

Page 13-1 Example 1: final answer should read $X = -2, -5$

Page 14-1 Example 2: solution B should read: $\frac{W_p}{100} \square \frac{35}{1} = \frac{10}{35}; 100 \square \frac{W_p}{100} \square 35 = 10 \square 100$

Page 14-1 Example 3: solution B should begin: $\frac{W_p}{100} \square \frac{25}{1} = \frac{10}{25}$

Page 14-2 Solution 2: heading should say: $W_p \square C_r = M$

Page 15-1 3rd line after paragraph should read: We now have: $\frac{D}{T} = R$

Page 23-1 Equation under ellipse should be $4X^2 + 9Y^2 = 36$

Page 23-3 Example 12: Center of graph should be at $(1/2, -1)$

Page 24-1 solution to problem 3: top of parabola should be at $(0, 0)$

Page 24-2 solution to problem 3: caption should read $Y = \square X^2 + 2$

Page 25-2 3rd line of example 2 should read $X^2 + 4X + 2$

Page 26-1 Table 6 at bottom: last number in X column should be ± 8.9

Page 28-4 Problem 7: second bottle should be 30% red

Solution Pages

Practice 5B-2 #2: The denominator of the first term should be $A - B$

Lesson 12C # 4: This problem can also be solved by factoring: $(3X + 7)(X - 1)$

Lesson 13B #2: first factor should read $(X - 3)$

Lesson 19B 6-8: if you have "Z" subscripts, they should be "D" for Dan

Lesson 20D 11-13: line 5 should read $72T_E = 216, \square E = 3$

Lesson 25D #8 should read $\frac{\square B}{2A} \square \square \frac{\square B}{2A} \square^2 + B \square \frac{\square B}{2A} \square + C$

Lesson 27B #1 final answer should round to 5.7

Lesson 28A #18 second point should be $(-2, 2)$

Lesson 28D #13 should say line and parabola

Student Book

19C numbers 16-18 should read "nitrogen and **hydrogen** are present..."

Teacher Manual Text:

Page 1-2: solution for practice problem #3 should read: $\frac{3^{\square 4}}{3^{\square 1}} = 3^{\square 3} = \frac{1}{3^3} = \frac{1}{27}$

Page 2-1: After line beginning with "Let's replace...": denominator of first term should be $X+7$

Page 3-3: example 2 line 2 should have "-" sign before "4X"

solution for practice problem #1 should begin: $5AB^{-1} + 7B^{-1}...$

Page 3-3: Solution for practice problem #3: 2nd term should be X^2Y^2

Page 4-1: practice problem #6 on (second set) should read: $\frac{8\sqrt{12}}{2\sqrt{6}}$

Page 4-2: solution for practice problem #6 on should read: $\frac{8\sqrt{12}}{2\sqrt{6}} = 4\sqrt{2}$

Page 4-3: Solution to practice problem #1 should read: $\frac{5}{\sqrt{13}} \square \frac{\sqrt{13}}{\sqrt{13}} = \frac{5\sqrt{13}}{13}$

Page 5-7: top trinomial of first fraction should read: $X^2 + 4X + 3$

Page 7-1: line 3 end of line should have $\sqrt{9}$ not $\sqrt{\square 9}$.

Page 8-2: Practice problem #8 denominator should read $4+\sqrt{10}$

Page 10-2: Example 4 should say: Find the third term of $(X + 2)^5$

answer should read: $10^3 2^2 = 10X^3(4) = 40X^3$

Page 10-2: Solution for practice problem 1: 2nd term should be $5A^4 3^1$

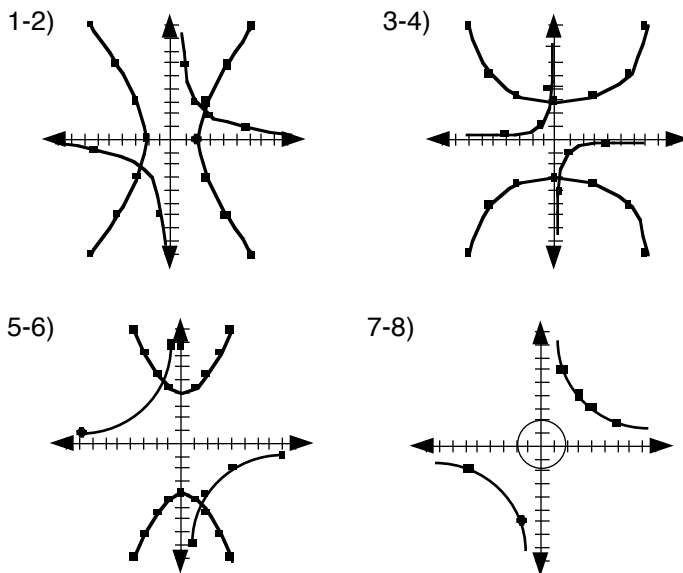
Page 11-4: Solution for practice problem #1 line 5 should begin: $\sqrt{(X+4)^2}$

Page 13-2: solution for problem #2: omit words "a perfect square"

Page 24-1: 1st paragraph, last sentence: $X^1 = Y^2$

Page 25-1: parabola in figure 1 should be in same position as the one in figure 2

Page 26-1: graphs at bottom should appear as follows:



Page 27-1: 2nd equation should read $Y = 2X - 1$

Algebra 2 Corrections 2003, continued

Solutions:

Lesson 3C #20 should read as follows: $\frac{X^4}{Y^0} + \frac{Y^3X^2}{X^3Y} = X^4 + \frac{Y^2}{X}$ (Note: the answer in your teacher manual may be correct if you have an older student book.)

Lesson 4B #5 should be 4 x the square root of 6.

Lesson 4D #9 answer should read: $\frac{6\sqrt{10}}{5}$

Lesson 5D #11: numerator of first term should read 1(2Y);

numerator of last term should be simplified to 2Y-X

Lesson 8A #1 should be $3X + i$ (this may disagree with some student books, but they are being changed too, since there was a problem with the original question. For those student books where the question is $3X - 1$, the answer is still $3X + 1$)

Lesson 8B #8: denominator of 1st fraction should be $\sqrt{7}\sqrt{7}$

Lesson 8C # 9 answer should read $28i\sqrt{3}$

Lesson 8D # 11 may be missing \div signs

Lesson 9B #18: the mark for canceling the term $(X - 7)$ is in the wrong place. It should be canceling the $(X - 1)$ term in the numerator of the following fraction.

Lesson 9D # 16 should read: $(x^{1/2})^6 = x^{6/2} = x^3$

Lesson 11A # 11 should read: Expand $(1/2X - 3B)^4$

Lesson 13C #4: numerator of last term should be $5\pm i\sqrt{7}$

Lesson 15A #19 should read: $4X^2 \square X \square 4 = 0$; $4X^2 \square X = 4$;

$$X^2 \square \frac{1}{4}X = 1; \quad X^2 \square \frac{1}{4}X + \frac{1}{64} = 1\frac{1}{64};$$

$$\square X \square \frac{1\square^2}{8\square} = \frac{65}{64}; \quad \sqrt{\square X \square \frac{1\square^2}{8\square}} = \sqrt{\frac{65}{64}};$$

$$X \square \frac{1}{8} = \pm \frac{\sqrt{65}}{8}; \quad X = \frac{1 \pm \sqrt{65}}{8}$$

Lesson 15A #20: coefficient of first squared term should be 4

Lesson 21C #3 should read: $2Y = X - 4$; $-X + 2Y = -4$ or $X - 2Y = 4$

Lesson 27C #17 should read: $X^2 + (-3 \frac{7}{12})^2 = 16 \square X^2 = 455/144$

$$X = \sqrt{455/144} \quad X = \pm \sqrt{\frac{455}{12}}$$

Tests:

Test 10 #10 Answer for A should be $14X^6Y$

Student Text:

4B #8 - $6\sqrt{125}$

Extra Practice:

Solutions 5B-2 #2: First term should be: $\frac{A+B}{A \square B}$

Algebra 2 Corrections 2002

Algebra 2 Teacher - Solutions

8C#19: answer should read $\frac{Y^2}{3X^2}$

9D#16: answer should read $(X^{1/2})^6 = X^{6/2} = X^3$

10D #2) second term should have -96, not -24

17C #16) should be 7/5, not 5/7, answer is 49

27C #11) 1 2/3 #12) Y coordinate is 5/3

27C #17) $X = \pm \frac{\sqrt{455}}{12}$ #18) change final solution to match #17

27D #3) 20 at end of answer should be positive, not negative

Teacher Manual - Text

7-1 Example 1) $3i + 5i = 8i$

9-2 bottom of page: 2nd term of final answer should read $3A^2B$

15-2 Solutions 1) $C = B - A - D$

Teacher Manual - Tests

Test 20 #9) Change answer B to $2X + Y = 3$

Test 27 #9) In answer C change "irrational" to "imaginary"

Student Text

2A #1) add "=0" to the expression

8A-D #5&7) make each an equation by adding "=0"

12C # 5 should read $2 = 5X + X^2$

Extra Practice Sheets

2B #16) expression at end of first line is final answer

5A-2 #5) may be reduced to $25(A - B)(A + B)$

8B #14) numerator of answer is $4 - 2i$

13A # 3 could also be solved as follows:

$$3) -2X^2 + 3X + 6 = 0$$

$$(3)^2 - 4(-2)(6) = 57$$

real, irrational, unequal

$$\frac{3 \pm \sqrt{57}}{2(2)} = \frac{3 \pm \sqrt{57}}{4}$$

21A #7) $Y = 2X - 5$

21B #13) graph should go through (0, 2)

The following are errors in *some* student books:

A2EPS 7A#5 should be $\sqrt{4} + \sqrt{100}$

7B#5 should be $\sqrt{64} \cdot \sqrt{16}$

8B#13 radical in denominator should include the X

A2S 7B#15 should have $10/9 X$, not $10/3 X$

7C#11 should be $(X^3)^{2/3} (X^5)^{4/5}$

Algebra 2 Corrections - first printing

Algebra 2 Teacher

- page 5-5 Ex. 1: final answer is $7X + 5$ in numerator
- page 7-2 #11 in solutions: should be -16 under radical
- page 9-1 final term in middle step of both formulas is B^2
- page 10-1 Ex. 2: coefficients in explanation should match solution
- page 13-2 Ex. 5: discriminant is 25
- page 15-2 #3 in solutions: $A - D - E = P$
- page 21-3 Ex. 2: 2nd line $-10 > 6$, 3rd line $-10 < 6$
- page 25-3 #1 in solutions: exponents shifted, should be $75X - X^2 = -X^2 + 75X$

Algebra 2 Teacher solution pages

- 2D #15) multiply by 1000, not 100
- 7C #11) answer X^6
- 8B #9) final answer $15i\sqrt{2}$
- 8D #1) $8i - 5$
- 10D #7) $(-6)(32X^5) = -192X^5$
- 12C #13) first term of answer is $32X^2$
- 15B #14) final answer is $2 \pm 3i$ #17) $\frac{-3 \pm \sqrt{15}}{2}$
- 16A #18) $\frac{-1 \pm i\sqrt{3}}{4}$
- 17A #19 & 20) switch answers
- 19B #14) first answer is 13,200 in second part 6.2 should be .62
- 20C #16) 44.4 yds.^2
- 21A #6) $B = -5$, #8 new line should intercept at -5
- 23A #8 & 9) switch answers #13 $(0, -1/2)$
- 27A #16) $5X^2 - 16X - 9$

Algebra 2 Tests

- 14 #2) What percent of wholesale price... #10) answer is C
- 16 #5) "If two visitors bought something for every three who only looked..."
#13) second term should be $18X$
- 24 #4) B should read $X = -3Y^2$

Algebra 2 Student

- 2A #1) $\frac{X}{X} - 2^0 = 0$
- 2B,D #17,18) change equation to expression
- 4B #8 question should read $\sqrt{6} \sqrt{125}$
- 7B #15) first X should be squared
- 19A #9-11) Emmett traveled at 27... #16-18) carbon should be magnesium

Algebra 2 Extra Practice Sheets

- 11A #3) answer is $4X$
- 12B #2) final answer is negative
- 16A #4) problem should read 8 to 7, final answer is 64 squirrels
#5) last S should be M
- 26B #16) delete final line of solution