TRANSITION GUIDE FOR PRECALCULUS EIGHTH EDITION BY LARSON
(PART I)

General Changes to Precalculus Eighth Edition

- The Chapter Openers have been revised. The Chapter Opener has three parts that ties together important topics covered in the chapter, where these topics occur in real-life situations, and a list of application exercises and its related career.
- Revised and added new Study Tips and Warning/Cautions.
- The in-text appendix is Appendix A Review of Fundamental Concepts of Algebra.
- Appendix B Concepts in Statistics is available on the website that accompanies this text is.
- A Capstone exercise has been added to each section. The instructor should be able to incorporate this exercise with a review of the material taught in the lesson. The exercise covers several of the concepts discussed in the section.
- The exercise sets have been carefully and extensively examined to ensure they are rigorous and cover all the topics users have suggested. Many new skill exercises, as well as many new challenging exercises have been added.
- All data in the examples and exercise sets have been updated.
- Algebra Helps added to point students to sections of the textbook they can review algebra skills related to the current topic.
- The Chapter Summaries have been revised to include an explanation and/or example of each objective taught in the chapter.
- Some examples have been revised to include side-by-side solutions.
- Deleted notes referencing the HM mathSpace CD-ROM and Eduspace.
- Deleted the Globe icon next to the Examples that involve a real-life application.
- Changed the title of “Writing About Mathematics” to “Classroom Discussion”.
- The Explorations from the lesson were moved to the Exercises (An IAE note was added to the minor column of the lesson to reference the Exercise).
- References to this book’s website were changed from “college.hmco.com” to “academic.cengage.com”.
- The color of substituted values in equations was changed from cyan to magenta.
Chapter-by-Chapter Changes to Precalculus with Limits Second Edition

Chapter 1 Functions and Their Graphs

- Section 1.1: Inserted Algebra Help in minor column near Example 4 to point out that techniques for evaluating a radical can be reviewed in Appendix A.2
- Section 1.1: Moved Common Formulas and Example 9 to Appendix A.5
- Section 1.2: Modified direction line for Example 1 to determine whether points lie on the graph of the equation
- Section 1.2: Inserted Algebra Help in minor column on section’s first page to point out that the Basic Rules of Algebra can be reviewed in Appendix A.1
- Section 1.2: In the Technology box at the top of the fourth page of the section, deleted the last sentence regarding the Graphing Technology Guide
- Section 1.2: Deleted old Example 5 head and Checkpoint reference because the example did not match any exercises
- Section 1.2: Added new Example 5 – Testing for Symmetry
- Section 1.2: Deleted table in the Solution for Example 6
- Section 1.2: Deleted Study Tip in minor column for Example 6
- Section 1.2: Added Algebra Help near Example 7 to point out that techniques for evaluating an absolute value expression can be reviewed in Appendix A.1
- Section 1.2: Modified Study Tip in minor column near Example 8 and changed its title to Warning/Caution
- Section 1.3: Added Algebra Help in minor column near Example 2 to point out that techniques for evaluating rational expressions can be found in Appendix A.4
- Section 1.4: Inserted a new page with new Example 5 (Finding Values for Which \( f(x) = 0 \)) and new Example 6 (Finding Values for Which \( f(x) = g(x) \)), plus an Algebra Help in minor column that points out that techniques for solving equations can be reviewed in Appendix A.5
- Section 1.4: Inserted Algebra Help near Example 7 to point out that techniques for solving a linear inequality can be reviewed in Appendix A.6
- Section 1.4: In old Example 7 (now Example 9), replaced the Solution with side-by-side Algebraic and Graphical Solutions
- Section 1.5: Inserted Technology note in major column after Example 2 to explain how to use a graphing utility to graph the function in Figure 1.54(a)
- Section 1.5: Inserted Algebra Help in minor column near Example 3 to point out that techniques for solving equations can be reviewed in Appendix A.5
- Section 1.7: Completely rewrote paragraph under Why you should learn it
- Section 1.7: Inserted new Study Tip in minor column next to Example 1
- Section 1.8: Added a step to Example 1 to evaluate the sum when \( x = 3 \)
- Section 1.8: Inserted new Example 3 – Finding the Product of Two Functions
- Section 1.8: Changed the title of old Example 3 (now Example 4) to Finding the Quotients of Two Functions
- Section 1.8: Because of inserting new Example 3, made the last paragraph on the page a Study Tip and moved it into the minor column
- Section 1.8: In old Example 5 (now Example 6), replaced the solution with side-by-side Algebraic and Graphical Solutions
- Section 1.8: Deleted the Technology feature next to old Example 5 because this is now the Graphical Solution to the example
- Section 1.9: Added step at the end of the solution for Example 2 to actually show that \( h(f(x)) = x \)
- Section 1.9: Modified Example 7 so that we are finding the inverse function of a square root rather than a cube root

Chapter 2 Polynomial and Rational Functions

- Section 2.1: On first page of section, added “\( f(x) = c \) with \( c \neq 0 \)” and “\( f(x) = ax + b \) with \( a \neq 0 \)” to first sentence under the “Definition of Polynomial Function” box to better describe a constant function and a linear function
- Section 2.1: Inserted Algebra Help in minor column near Example 1 to point out that techniques for shifting, reflecting, and stretching graphs can be reviewed in Section 1.7
• Section 2.1: Inserted Algebra Help in minor column near Example 2 to point out that techniques for completing the square can be reviewed in Appendix A.5
• Section 2.1: Inserted Algebra Help in minor column at top of section’s fifth page to point out that techniques for using the Quadratic Formula can be reviewed in Appendix A.5
• Section 2.1: Made slight modification to Example 4 and Figure 2.8 to show that the parabola passes through the point (3, -6). This also affects the way the solution is found, although the final solution of $f(x) = -2(x - 1)^2 + 2$ remains the same.
• Section 2.1: On last page of lesson, changed heading from “Applications” to “Finding Minimum and Maximum Values.” Modified first paragraph by showing the quadratic function in standard form. Changed title in Definition box from “Vertex of a Parabola” to “Minimum and Maximum Values of Quadratic Functions” and added the minimum and maximum values.
• Section 2.1: In Example 5, replaced the solution with side-by-side Algebraic and Graphical Solutions
• Section 2.1: Deleted Example 6
• Section 2.2: In title for Example 1, changed “Monomial” to “Polynomial”
• Section 2.2: Inserted Algebra Help in minor column near Example 1 to point out that techniques for shifting, reflecting, and stretching graphs can be reviewed in Section 1.7
• Section 2.2: Inserted Algebra Help in minor column near Example 3 to point out that techniques for factoring can be reviewed in Appendix A.3
• Section 2.2: In first paragraph on section’s sixth page, a reference to the Intermediate Value Theorem was added.
• Section 2.3: Inserted Algebra Help in minor column near Examples 2 and 3 to point out that techniques for multiplying polynomials can be reviewed in Appendix A.3
• Section 2.3: Rewrote Direction Line for Example 3 so that the dividend and divisor are not in descending powers of $x$
• Section 2.3: In Example 6, replaced the solution with side-by-side Algebraic and Graphical Solutions
• Section 2.3: Inserted new Study Tip in major column after Example 6 to point out that the complete factorization of $f(x)$ in Example 6 implies that $f$ has four real zeros
• Section 2.4: Inserted Algebra Help in minor column near Example 3 to point out that complex conjugates and the method for rationalizing denominators can be compared in Appendix A.2
• Section 2.4: Inserted Algebra Help in minor column at top of section’s fifth page to point out that techniques for using the Quadratic Formula can be reviewed in Appendix A.5
• Section 2.5: Inserted sentence before Example 1 to point out that the zeros of a polynomial function can be real or complex, and repeated.
• Section 2.5: Inserted Algebra Help in minor column near Example 1 to point out that techniques for factoring polynomials can be reviewed in Appendix A.3
• Section 2.5: Inserted Algebra Help in minor column near Example 3 to point out that techniques for synthetic division can be reviewed in Section 2.3
• Section 2.5: Inserted Algebra Help in minor column near Example 5 to point out that techniques for using the Quadratic Formula can be reviewed in Appendix A.5
• Section 2.5: Inserted Algebra Help in minor column near Example 7 to point out that techniques for polynomial long division can be reviewed in Section 2.3
• Section 2.6: Modified first sentence in section to give a definition for a rational function (quotient of polynomial functions)
• Section 2.6: Deleted Study Tip near Example 1 because we now state in the example itself that $f(x) = 1/x$ is the reciprocal function
• Section 2.6: Changed title of Definition Box at top of third page of section from “Asymptotes of a Rational Function” to “Vertical and Horizontal Asymptotes of a Rational Function” because students have not seen slant asymptotes yet
• Section 2.6: Inserted Algebra Help in minor column near Example 2 to point out that techniques for factoring can be reviewed in Appendix A.3
• Section 2.6: In Example 8, replaced the solution with side-by-side Algebraic and Graphical Solutions
• Section 2.7: Throughout this section, changed “critical numbers” to “key numbers”
• Section 2.7: Inserted Algebra Help in minor column near Example 1 to point out that techniques for factoring polynomials can be reviewed in Appendix A.3
• Section 2.7: Inserted new Example 3 – Solving a Polynomial Inequality (side-by-side Algebraic and Graphical Solutions)
• Section 2.7: Moved Study Tip that was in minor column next to Example 2 to the major column on the next page
Section 2.7: Inserted Study Tip in minor column near Example 5 (old Example 4) that shows how to rewrite the general form of the inequality in Example 5

Chapter 3 Exponential and Logarithmic Functions

Section 3.1: Inserted Algebra Help in minor column near Example 2 to point out that techniques for sketching the graph of an equation can be reviewed in Section 1.2
Section 3.1: Inserted Algebra Help in minor column near Example 5 to point out that techniques for transforming the graph of a function can be reviewed in Section 1.7
Section 3.1: Modified Example 9 and replaced solution with side-by-side Algebraic and Graphical Solutions
Section 3.2: Deleted Study Tip in minor column near Example 1 because this information is stated in the major column
Section 3.2: Inserted Algebra Help in minor column near Example 7 to point out that techniques for shifting, reflecting, and stretching graphs can be reviewed in Section 1.7
Section 3.2: In Example 11, replaced the solution with side-by-side Algebraic and Graphical Solutions
Section 3.3: Added Algebra Help in minor column near Example 6 to point out that techniques for rewriting radicals and rational exponents can be reviewed in Appendix A.2
Section 3.4: Added part (g) to Example 1
Section 3.4: Inserted Study Tip in minor column near Example 2 to show another way to solve Example 2(b)
Section 3.4: In Example 7, replaced the solution with side-by-side Algebraic and Graphical Solutions
Section 3.4: Totally redid “Classroom Discussion” (old “Writing About Mathematics”) changing from “Comparing Mathematical Models” to “Analyzing Relationships Numerically”
Section 3.5: Modified Example 1 and replaced solution with side-by-side Algebraic and Graphical Solutions (Technology feature was moved from minor column to major column because of this)
Section 3.5: In Example 3, replaced the solution with side-by-side Algebraic and Graphical Solutions
Section 3.5: Deleted Study Tip that was near Example 3 due to lack of space
Section 3.5: In Example 5, replaced the solution with side-by-side Algebraic and Graphical Solutions
Section 3.5: On last page of lesson, deleted “Alternative Writing About Mathematics” (now titled “Classroom Discussion”)

Chapter 4 Trigonometry

Section 4.1: Added Algebra Help in minor column near Example 1 to point out that operations involving fractions can be reviewed in Appendix A.1
Section 4.2: Added Algebra Help in minor column near Example 1 to point out that dividing fractions and rationalizing denominators can be reviewed in Appendix A.1 and Appendix A.2, respectively
Section 4.3: On first page in section, added “Exploration” note in minor column of IAE
Section 4.3: Deleted IAE note regarding the Pythagorean Theorem and replaced it with Algebra Help in minor column near Example 1 to point out that the Pythagorean Theorem can be reviewed in Section 1.1
Section 4.3: In Historical Note on second page of section, changed the year of Georg Joachim Rheticus’ death from 1576 to 1574
Section 4.4: Added Algebra Help in minor column near Example 1 to point out that the Distance Formula can be reviewed in Section 1.1 (Moved figure for Example 1 into major column to make room for Algebra Help)
Section 4.5: Inserted Algebra Help in minor column on section’s fifth page to point out that techniques for shifting, reflecting, and stretching graphs can be reviewed in Section 1.7
Section 4.5: In Example 4, replaced the solution with side-by-side Algebraic and Graphical Solutions
Section 4.5: In last sentence of Solution for Example 6, changed “−” to “=” (y = 2 + 3 cos 2x) to correct an error in 7e
Section 4.6: On first page of section, added “Symmetry: Origin” next to the graph of y = tan x
Section 4.6: Inserted Algebra Help in minor column on section’s first page to point out six different topics that can be reviewed in earlier sections
Section 4.6: On third page of section, added “Symmetry: Origin” next to the graph of y = cot x
Section 4.6: On sixth page in section, added “Exploration” note in minor column of IAE
• Section 4.7: Inserted Algebra Help in minor column on section’s fifth page to point out that the composition of functions can be reviewed in Section 1.8

Chapter 5 Analytic Trigonometry

• Section 5.1: Inserted Algebra Help in minor column near Example 3 to point out that techniques for factoring can be reviewed in Appendix A.3
• Section 5.1: Inserted Algebra Help in minor column near Example 9 to point out that the properties of logarithms can be reviewed in Section 3.3
• Section 5.2: In Example 2, replaced the solution with side-by-side Algebraic and Numerical Solutions
• Section 5.2: In Example 3, replaced Numerical Solution with Graphical Solution
• Section 5.2: In Example 6, replaced the solution with side-by-side Algebraic and Numerical Solutions
• Section 5.3: Inserted Warning/Caution in minor column near Example 2 to point out that you must account for both positive and negative solutions when extracting square roots
• Section 5.3: Inserted Algebra Help in minor column on section’s third page to point out that techniques for solving quadratic equations can be reviewed in Appendix A.5
• Section 5.4: Old Example 2 is now new Example 1, and old Example 1 is now new Example 2 (with slight modifications to both solutions)
• Section 5.4: Inserted Study Tip in minor column near Example 2 to show another way to solve Example 2
• Section 5.4: Replaced Example 3 with an example from Precalculus Functions and Graphs AGA 5e
• Section 5.4: In Historical Note, changed that Hipparchus was born “about 160 B.C.” to “about 190 B.C.”
• Section 5.4: Modified Activities 1-3 in minor column next to Example 6 in IAE
• Section 5.4: In Example 7, replaced the solution with side-by-side Algebraic and Graphical Solutions
• Section 5.5: In Example 10, replaced the solution with side-by-side Algebraic and Graphical Solutions

Chapter 6 Additional Topics in Trigonometry

• Section 6.1: In Figure 6.4 in minor column next to Example 3, changed “One solution: \( a > b \)” to “One solution: \( a \geq b \)”
• Section 6.1: On last page of lesson, deleted the “Alternative Writing About Mathematics: Error Analysis” (now “Classroom Discussion”) in minor column of IAE
• Section 6.2: Replaced Example 2 with an example from Algebra & Trigonometry AGA 5e (Section 7.2, Example 2, page 564)
• Section 6.3: Throughout section, deleted “=” from point callouts (For instance, in Example 1, changed “\( P = (0, 0) \)” to “\( P(0, 0) \)”)
• Section 6.3: In the Solution for Example 1, added the calculations of the slope for both line segments
• Section 6.3: In Example 2, replaced the solution with side-by-side Algebraic and Graphical Solutions
• Section 6.3: Replaced second paragraph on third page of section with a paragraph adapted from Precalculus Functions and Graphs AGA 5e (Section 6.3, page 426)
• Section 6.3: Added step in Solution of Example 3(b)
• Section 6.3: In the last sentence of the Solution for Example 10, added a line to show the calculation of 337.4°.
• Section 6.4: In the last paragraph on the third page of the section, deleted second sentence
• Section 6.5: In Solution for Example 4, added comment that “\( 5\pi/2 \) and \( \pi/2 \) are coterminal”

Chapter 7 Systems of Equations and Inequalities

• Section 7.1: Inserted Algebra Help in minor column near Example 1 to point out that techniques for solving different types of equations can be reviewed in Appendix A.5
• Section 7.1: Inserted Algebra Help in minor column near Example 3 to point out that techniques for factoring can be reviewed in Appendix A.3
• Section 7.1: Inserted Algebra Help in minor column near Example 5 to point out that techniques for graphing equations can be reviewed in Section 1.2
• Section 7.1: In Example 6, replaced the solution with side-by-side Algebraic and Graphical Solutions
• Section 7.2: On second page of section, modified steps and added a step to the “Method of Elimination” box to match the “Method of Substitution” box in Section 7.1
• Section 7.2: Modified Example 2 so that there are fractional solutions because Example 1 was modified to eliminate the fractional solutions (A reviewer felt we should ease students into the concept by starting with whole number solutions)
• Section 7.3: Deleted Study Tip in minor column near Example 2 because this statement was moved into the solution of Example 2
• Section 7.3: Modified last paragraph of Solution to Example 2 to show the steps of back-substitution to determine that $x = -1$
• Section 7.4: Inserted Algebra Help in minor column on first page of section to point out that the degree of a polynomial can be reviewed in Appendix A.3
• Section 7.4: Inserted Algebra Help in minor column near Example 2 to point out that techniques for long division of polynomials can be reviewed in Section 2.3 and techniques for factoring polynomials can be reviewed in Appendix A.3
• Section 7.4: Inserted Warning/Caution in minor column near Example 2 to warn that each fraction in the form of the decomposition must be multiplied by the LCD
• Section 7.5: Inserted Algebra Help in minor column on section’s second page to point out that the properties of inequalities can be reviewed in Appendix A.6
• Section 7.5: In Figure 7.25, changed “$y = x^2 + 1$” to “$y = x^2 - 1$” to correct an error in 7e
• Section 7.6: In Figure 7.33, moved the one vertex to (0, 1) to correct an error in 7e
• Section 7.6: In Historical Note next to Example 3, inserted “2005” as the year of death of George Dantzig
• Section 7.6: Inserted Algebra Help in minor column near Example 4 to define the slope of a nonvertical line through two points
• Section 7.6: Added two questions prior to the Solution for Example 5

Chapter 8 Matrices and Determinants

• Section 8.1: On first page of section, in paragraph directly below “Definition of Matrix” box, changed description of the order of a square matrix from “$n$” to “$m \times m$ (or $n \times n$)”
• Section 8.1: Changed the IAE note in minor column near Example 4 into a Warning/Caution
• Section 8.1: Inserted paragraph between “Row-Echelon Form and Reduced Row-Echelon Form” box and Example 5 (paragraph discusses uniqueness of a matrix and used to be after Example 9)
• Section 8.1: Deleted last page of lesson, which contained Example 10 (IAE Activities were moved next to Example 9)
• Section 8.2: Inserted Algebra Help in minor column on section’s fourth page to point out that the properties of addition and multiplication of real numbers can be reviewed in Appendix A.1
• Section 8.2: On sixth page of section, in paragraph directly below “Definition of Matrix Multiplication” box, inserted “So for the product of two matrices to be defined, the number of columns of the first matrix must equal the number of rows of the second matrix.”
• Section 8.2: Inserted direction line for Example 7. To make room for this, the first two sentences of Example 7 were moved to the minor column as a Study Tip.
• Section 8.2: In the “Definition of Identity Matrix” box, changed “$n$” to “$n \times n$” (2x)
• Section 8.2: On ninth page of section, inserted Study Tip in minor column to define a constant matrix
• Section 8.2: Moved the last two sentences of the Solution for Example 12 to the minor column as a Study Tip
• Section 8.3: On the fifth page of section, deleted the Exploration in the minor column (this was not moved to the Exercises)

Chapter 9 Sequences, Series, and Probability

• Section 9.1: At the end of the first paragraph on the first page of the section, added “Two examples are 1, 2, 3, 4, . . . and 1, 3, 5, 7, . . . .”
• Section 9.1: At the end of the paragraph directly under the “Definition of Sequence” box, added “When this is the case, the domain includes 0.”
• Section 9.1: Added “Additional Example” in minor column next to Example 4 in IAE
• Section 9.1: In Example 5, replaced the solution with side-by-side Algebraic and Numerical Solutions
• Section 9.1: Added Example 9 – Compound Interest (old Example 9 is now Example 10 with updated data)
• Section 9.2: Totally redid the second page of the section by deleting the first paragraph, deleting the linear form in “The \( n \)th Term of an Arithmetic Sequence” box, moving the Study Tip from the minor column to the major column before Example 2, modifying the Solution to Example 2, and deleting the last paragraph
• Section 9.2: Slightly revised Solutions to Examples 4, 7, 8, and 9 because of the deletion of the linear form of the \( n \)th term of an arithmetic sequence
• Section 9.3: Moved last paragraph on first page of section to the minor column as a Warning/Caution
• Section 9.5: In minor column of second page of section, added an IAE note to refer to Exercise 101
• Section 9.5: Inserted Algebra Help in minor column near Example 5 to show one property of exponents and to point out that properties of exponents can be reviewed in Appendix A.2
• Section 9.7: On the last page of lesson, deleted the Exploration in the minor column [this was not moved to the Exercises because Exercise 73 (Exercise 59 in 7e) is very similar]

Chapter 10 Topics in Analytic Geometry

• Section 10.1: Inserted new Example 1 – Finding the Inclination of a Line (old Example 1 is now Example 2, and so on)
• Section 10.1: Deleted the “Writing About Mathematics” box
• Section 10.1: Deleted the Group Activity: Graphing Utility in minor column of IAE
• Section 10.2: Modified Study Tip in minor column near Example 2 and changed its title to Algebra Help
• Section 10.2: Inserted Algebra Help in minor column on last page of lesson to point out that techniques for writing linear equations can be reviewed in Section 1.3
• Section 10.3: Near the top of the second page of the section, added “which, after expanding and regrouping, reduces to 
\[
(a^2 - c^2)(x - h)^2 + a^2( y - k)^2 = a^2(a^2 - c^2).
\]
• Section 10.3: On the last page of lesson, deleted Pluto from the list of planetary orbits because Pluto is no longer considered a planet
• Section 10.4: In Example 2, replaced the solution with side-by-side Algebraic and Graphical Solutions
• Section 10.8: On the first page of section, inserted IAE note in minor column to have teachers demonstrate checking of the graph in Example 1 by converting the polar equation to rectangular form
• Section 10.8: In Solution for Example 2, added side comment “\( \cos(-\theta) = \cos \theta \)”

Appendix A   Review of Fundamental Concepts of Algebra

• Appendix A.1: Inserted new Example 1 – Classifying Real Numbers
• Appendix A.1: Inserted a new sentence in the paragraph directly after new Example 1 to define “plotting”
• Appendix A.1: Inserted new Example 2 – Plotting Points on the Real Number Line
• Appendix A.1: Inserted new Example 3 – Ordering Real Numbers
• Appendix A.1: Moved sentence that defines the Law of Trichotomy from immediately after old Example 3 (now Example 6) to immediately after old Example 4 (now Example 8)
• Appendix A.1: Inserted new Example 7 – Finding Absolute Values
Appendix A.1: Inserted new Example 9 – Comparing Real Numbers
Appendix A.1: Inserted new Example 10 – Finding a Distance
Appendix A.1: When defining “coefficient” in the paragraph immediately below the “Definition of an Algebraic Expression” box, changed “variable term” to just “term”
Appendix A.1: Inserted new Example 11 – Identifying Terms and Coefficients
Appendix A.1: Took the two expressions that were evaluated below the “Definition of an Algebraic Expression” box, added a third expression, and made them into Example 12 – Evaluating Algebraic Expressions
Appendix A.1: Inserted three new sentences at the end of the paragraph directly under the “Basic Rules of Algebra” box to show that the operations of subtraction and division are neither commutative nor associative
Appendix A.1: Inserted new Example 13 – Identifying Rules of Algebra
Appendix A.2: Inserted new Example 1 – Evaluating Exponential Expressions
Appendix A.2: Inserted new Example 2 – Evaluating Algebraic Expressions
Appendix A.2: Inserted new Example 7 – Using Scientific Notation
Appendix A.2: In minor column of IAE, deleted Additional Examples that were next to old Example 11 (now Example 14)
Appendix A.2: Deleted part (f) from old Example 15 (now Example 18)
Appendix A.2: Added a new sentence immediately after old Example 15 (now Example 18) that explains that the expression in part (e) is not defined when \(x = 1/2\)
Appendix A.3: In Example 1, inserted a fourth column titled “Leading Coefficient”
Appendix A.4: On the first two pages of the section, some sentences and paragraphs were rearranged but nothing was deleted
Appendix A.4: In the sentence directly after Example 2, added “by factoring out \((-1)\)”
Appendix A.4: At the end of the paragraph that was before Example 2 and is now after Example 3, inserted two sentences regarding the domain restrictions listed in Example 3
Appendix A.4: Inserted Algebra Help in minor column near Example 11 to point out that techniques for rationalizing a numerator can be reviewed in Appendix A.2
Appendix A.5: Under “What you should learn,” added “Use common formulas to solve real-life problems”
Appendix A.5: On the first page of the section, deleted the sentence “Learning to solve conditional equations is the primary focus of this section.
Appendix A.5: On the second page of the section, modified the first paragraph by adding “in one variable, written in standard form, always” to the first sentence, deleting “(Remember that \(a \neq 0\),)” and changing first side comment to “Original equation, with \(a \neq 0\)”
Appendix A.5: Inserted Study Tip in minor column of the second page of the section to point out that some linear equations in nonstandard form have no solution or infinitely many solutions
Appendix A.5: Added a page at the end of the lesson to insert Common Formulas and Example 15
Appendix A.6: Under “What you should learn,” added “Use properties of inequalities to create equivalent inequalities”
Appendix A.6: Took out part (b) of Example 2 and made it Example 3 with side-by-side Algebraic and Graphical Solutions
Appendix A.6: In Study Tip next to Example 2, added “For instance, in Example 2, try substituting \(x = 5\) and \(x = 10\) into the original inequality.”
Appendix A.7: In “Errors Involving Radicals” box on second page of section, added “when adding or subtracting terms” to second Comment