



# Algebra 2

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STANDARDS	PAGE REFERENCES
<b>Mathematics – State Goal 6: Number Sense</b>	
<b>Standard 6A – Representations and Ordering</b>	
<p><b>6.11.01</b> Recognize, represent, order, compare real numbers, and locate real numbers on a number line (e.g., <math>\pi</math>, <math>\sqrt{2}</math>, <math>\sqrt{5}</math>, <math>2/3</math>, <math>-1.6</math>).</p>	<p><b>Student Edition:</b> 11-12, 15-16 #1-#3, #14-#21, #53-#56, 39 #66-#68 <i>Mid-Chapter Quiz</i> 32 #8-#9 <i>Practice Test</i> 53 #6-#8 <i>Quick Check</i> 5 #24-#31 <i>Study Guide and Review</i> 50 #20-#22</p> <p><b>Teacher Wraparound Edition:</b> AE 12</p>
<p><b>6.11.02</b> Represent numbers in equivalent forms (e.g., fraction/decimal/percent, exponential/logarithmic, radical/rational exponents, absolute value, scientific notation).</p>	<p><b>Student Edition:</b> 315 Example 5, 316-317 #10, #27-#28, #40, #46, 415-416 Examples 1 and 2, 419 #1-#8, #17-#32, 427 #49-#51, 471 #59, 510 Examples 1 and 2, 514-515 #1-#6, #23-#34, 533 #71-#73 <i>Mid-Chapter Quiz</i> 348 #4 <i>Standardized Test Practice</i> 426 #48, 872 #3 <i>Study Guide and Review</i> 433 #49-#51, 553 #19-#22</p> <p><b>Teacher Wraparound Edition:</b> AE 315 #5, 416, 510 #1-#2; DI 513</p>

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<p><b>6.11.03</b> Use matrices to organize data.</p>	<p><b>Student Edition:</b>            162-163 Example 1, 165-166 #1, #7-#8, #21, #23, #25-#26, 170-171 Example 3, 173-174 #5, #22, 179 Example 3, 182-183 #10, #28, #35, #37, #44  <i>Mid-Chapter Quiz</i> 193 #3, #10  <i>Study Guide and Review</i> 225 #17</p> <p><b>Teacher Wraparound Edition:</b>            AE 163, 170 #3, 179</p>
<p><b>Standards 6B, 6C – Computation, Operations, Estimation, and Properties</b></p>	
<p><b>6.11.04</b> Apply the rules of order of operations to real-number expressions.</p>	<p><b>Student Edition:</b>            6-10, 17 #67-#75, 26 #77-#79, 48 #70-#72  <i>Mid-Chapter Quiz</i> 32 #1-#7  <i>Practice Test</i> 53 #1-#5  <i>Study Guide and Review</i> 1-1 50</p> <p><b>Teacher Wraparound Edition:</b>            AE 7-8; PAP 10</p>
<p><b>6.11.05</b> Simplify or test expressions by applying field properties (commutative, associative, distributive), order properties (transitive, reflexive, symmetric), and properties of equality for the set of real numbers.</p>	<p><b>Student Edition:</b>            14 Example 5, 15-16 #12-#13, #36-#43, 26 #75-#76, 48 #68-#69  <i>Algebra Lab</i> 13  <i>Mid-Chapter Quiz</i> 32 #15  <i>Study Guide and Review</i> 50 #23-#25</p> <p><b>Teacher Wraparound Edition:</b>            AE 14 #5</p>
<p><b>6.11.06</b> Apply number theory concepts to the solution of problems (e.g., prime and composite numbers, prime factorization, greatest common factor, least common multiple, divisibility rules).</p>	<p><b>Student Edition:</b>            254 Example 2, 256 #4-#6, #17-#20, 350, 353-354 #1-#8, #14-#23, #42-#49, 361 #48-#51, 368 #55-#57, 450-456, 463 #57-#58, 471 #56-#57, 478 #48-#53  <i>Mid-Chapter Quiz</i> 472 #8-#11  <i>Mixed Problem Solving</i> 926 #4  <i>Practice Test</i> 379 #9-#14, 493 #5-#6  <i>Study Guide and Review</i> 377 #38-#41, 490 8-2</p> <p><b>Teacher Wraparound Edition:</b>            AE 254 #2, 350, 451-453</p>
<p><b>6.11.07</b> Determine the effects of operations on the magnitudes of quantities (e.g., multiplication, division, powers, roots).</p>	<p>See Glencoe's <i>Pre-Algebra</i> © 2008</p>

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<p><b>6.11.08</b> Determine the appropriate solution, including rounding, from a context (e.g., rounding up, down, to the nearest integer).</p>	<p><b>Student Edition:</b>            87-88 Example d, 90 #18, 122 #45, 140-141 Example 3, 242 #36, #52, 248 Example 5, 367 #40-#41, 370 Example 2, 372 #33, 482 Example 4, 485 #32, 486 #41</p> <p><b>Teacher Wraparound Edition:</b>            AE 88d, 371 #2</p>
<p><b>6.11.09</b> Solve problems involving estimates or data (e.g., use averages to estimate the cost of a job that includes labor and materials).</p>	<p>Problems involving estimation can be found on the following pages:</p> <p><b>Student Edition:</b>            55 #11, 198 #26, 199 #27, 248, 250 #47, 251 #49, 315 Example 5, 316 #27, 344 #23-#25, #26c-#31c, #34-#37, 373 #45, 381 #7, 501 #3, 503 #11, 505 #54, 527 #2, 764 Example 7</p> <p><i>Graphing Calculator Lab</i> 252</p> <p><b>Teacher Wraparound Edition:</b>            AE 248, 764</p>
<p><b>6.11.10</b> Perform numerical computations with real numbers.</p>	<p><b>Student Edition:</b>            26 #77-#78</p> <p><i>Mid-Chapter Quiz</i> 32 #1-#6</p> <p><i>Prerequisite Skill</i> 414 #72-#79, 641 #66-#68, 662 #46-#48, 689 #42-#49, 702 #47-#51, 709 #62-#67, 739 #49-#54, 767 #59-#62, 774 #74-#79, 846 #54-#57</p> <p><i>Quick Check</i> 5 #1-#12, #14-#22, 167 #44-#47</p> <p><i>Standardized Test Practice</i> 702 #39</p>
<p><b>6.11.11</b> Perform numerical computations with non-real complex numbers.</p>	<p><b>Student Edition:</b>            262-263, 264-265 #15-#21, #50-#52, #72-#73, 283 #59-#61</p> <p><i>Mid-Chapter Quiz</i> 267 #19, #21-#23</p> <p><i>Practice Test</i> 307 #18-#19</p> <p><i>Standardized Test Practice</i> 330 #47, 426 #48</p> <p><i>Study Guide and Review</i> 304 #33-#38</p> <p><b>Teacher Wraparound Edition:</b>            AE 262-263</p>

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<p><b>6.11.12</b> Solve problems using simple matrix operations (addition, subtraction, multiplication, scalar multiplication).</p>	<p><b>Student Edition:</b>            169-176, 177-184, 184 #47-#49, 192 #52-#53,            200 #46-#48, 207 #45-#48, 215 #57-#59  <i>Mid-Chapter Quiz</i> 193 #5-#14  <i>Practice Test</i> 229 #3-#5  <i>Study Guide and Review</i> 225 4-2, 226 4-3  <b>Teacher Wraparound Edition:</b>            AE 170-172, 178-180; DI 178; PAP 171, 179</p>
<p><b>6.11.13</b> Set up, evaluate, or solve single- and multi-step number sentences and word problems with rational numbers using the four basic operations.</p>	<p><b>Student Edition:</b>            18-26, 39 #65  <i>Mid-Chapter Quiz</i> 32 #16-#23  <i>Mixed Problem Solving</i> 926  <i>Practice Test</i> 53 #15-#20, #27-#28  <i>Standardized Test Practice</i> 54 #1-#2, #6, #11  <i>Study Guide and Review</i> 51 1-3  <b>Teacher Wraparound Edition:</b>            AE 19-22</p>
<p><b>6.11.14</b> Determine the most cost effective option using single- and multi-step calculations and then comparing results.</p>	<p><b>Student Edition:</b>            117 Example 3, 120-121 #5-#7, #27-#29, 133 #18,            140 Example 3, 142-143 #9-#14, #28-#38, 152 #35  <i>Mixed Problem Solving</i> 928 #1-#4, #10-#14  <i>Practice Test</i> 157 #17-#19  <i>Study Guide and Review</i> 155 3-4  <b>Teacher Wraparound Edition:</b>            AE 117 #3, 140</p>
<p><b>6.11.15</b> Judge the reasonableness of solutions, and find mistakes in calculation, logic, and formula application.</p>	<p>This standard can be met throughout the textbook. Specific examples are found on the following pages:  <b>Student Edition:</b>            25 #68, 76 #52, 128 #47, 199 #38, 257 #50,            298 #10, 330 #43, 372 #33, 414 #60, 455 #58,            485 #32, 500 Study Tip, 541 #62, 640 #54,            708 #50, 792 #37, 797 #32, 828 #42,  <i>Reading Math</i> 319 #8  <i>Standardized Test Practice</i> 317 #48</p>
<p><b>6.11.16</b> Simplify numerical problems involving absolute value.</p>	<p><b>Student Edition:</b>            27 Example 1, 29-30 #1-#3, #15-#22, #43-#45  <i>Prerequisite Skill</i> 91 #31-#35  <b>Teacher Wraparound Edition:</b>            AE 28</p>

STANDARDS	PAGE REFERENCES
<b>Standards 6D – Ratios, Proportions, and Percents</b>	
<p><b>6.11.17</b> Set up, evaluate, or solve number sentences or word problems involving ratios and proportions with rational numbers (e.g., scale drawing, unit rate, scale factor, rate of change).</p>	<p><b>Student Edition:</b>  71-77, 187 Example 3, 189 #6-#7, 597 #50, 655 #69-#70  <i>Mid-Chapter Quiz</i> 85 #15-#16  <i>Prerequisite Skills</i> 879 Example 2, 880  <i>Standardized Test Practice</i> 64 #60, 113 #11c, 494 #3  <i>Study Guide and Review</i> 108 2-3  <b>Teacher Wraparound Edition:</b>  AE 72-74, 187 #3</p>
<p><b>6.11.18</b> Set up, evaluate, or solve common problems involving percent (e.g., sales tax, tip, interest, discount, markup, commission, compound interest).</p>	<p><b>Student Edition:</b>  8 #7-#8, 14 Example 4, 544-545 Example 1, 546-547 Example 3, 548-549 #1, #5, #8, #12-#14  <i>Practice Test</i> 557 #17-#18  <i>Prerequisite Skill</i> 723  <i>Standardized Test Practice</i> 617 #8, 681 #11  <i>Study Guide and Review</i> 556 #58, #61  <b>Teacher Wraparound Edition:</b>  AE 545 #1, 546</p>
<p><b>6.11.19</b> Set up, evaluate, or solve problems stated in terms of direct and inverse variation of simple quantities.</p>	<p><b>Student Edition:</b>  465-471, 478 #40, 486 #47  <i>Mid-Chapter Quiz</i> 472 #20-#22  <i>Practice Test</i> 493 #17-#19, #22-#23  <i>Standardized Test Practice</i> 494 #1-#3  <i>Study Guide and Review</i> 491 8-4  <b>Teacher Wraparound Edition:</b>  A 471; AE 466-467</p>
<b>Mathematics – State Goal 7: Measurement</b>	
<b>Standards 7A, 7B, 7C – Units, Tools, Estimation, and Applications</b>	
<p><b>7.11.01</b> Change from one unit to another within the same system of measurement, including calculations with mixed units (e.g., 3½ hours plus 4 hours and 20 minutes; 2½ feet minus 16 inches).</p>	<p>See Glencoe’s <i>Geometry</i> © 2008</p>

STANDARDS	PAGE REFERENCES
<p><b>7.11.02</b> Change from one unit in one system of measurement to a unit in another system of measurement, given a conversion factor.</p>	<p><b>Student Edition:</b>            770 Example 2, 772-773 #5-#10, #20-#27, #40-#47, 783 #56-#58  <i>Mid-Chapter Quiz</i> 784 #6-#9  <i>Mixed Problem Solving</i> 927 #4-#5  <i>Practice Test</i> 817 #5-#10  <i>Study Guide and Review</i> 813 #14-#17</p> <p><b>Teacher Wraparound Edition:</b>            AE 770 #2</p>
<p><b>7.11.03</b> Determine and calculate to an indicated precision the length, width, height, perimeter/circumference, area, volume, surface area, angle measures, or sums of angle measures of common geometric figures or combinations of common geometric figures.</p>	<p><b>Student Edition:</b>            8 Example 2, 15 #34, 17 #71, 24-25 #43, #63, 26 #79, 69 #34, 197, 244 #93, 367 #43  <i>Mixed Problem Solving</i> 926 #1, #5, 928 #16-#17, 931 #9, #11  <i>Standardized Test Practice</i> 10 #40, 200 #42, 792 #40  <i>Study Guide and Review</i> 51 #39, 378 #64</p> <p><b>Teacher Wraparound Edition:</b>            AE 8, 197, 786 #1</p>
<p><b>7.11.04</b> Describe the general trends of how the change in one measure affects other measures in the same figure (e.g., length, area, volume).</p>	<p><b>Student Edition:</b>  <i>Standardized Test Practice</i> 54 #4</p>
<p><b>7.11.05</b> Determine the linear measure, perimeter, area, surface area, and volume of similar figures.</p>	<p><b>Student Edition:</b>            469 #15  <i>Standardized Test Practice</i> 54-55 #7, #10, 64 #60, 648 #65, 681 #9</p>
<p><b>7.11.06</b> Determine the ratio of perimeters, areas, and volumes of figures.</p>	<p><b>Student Edition:</b>  <i>Standardized Test Practice</i> 559 #6</p>
<p><b>7.11.07</b> Use measures expressed as rates (e.g., speed, density), measures expressed as products (e.g., person-days), and dimensional analysis (e.g., converting ft/sec to yards/min) to solve problems.</p>	<p><b>Student Edition:</b>            315 Example 5, 316-317 #28, #40, 324 #74, 330 #52  <i>Prerequisite Skill</i> 767 #59-#62  <i>Reading Math</i> 319  <i>Standardized Test Practice</i> 774 #63</p> <p><b>Teacher Wraparound Edition:</b>            AE 315 #5</p>

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<b>Mathematics – State Goal 8: Algebra</b>	
<b>Standard 8A – Representations, Patterns, and Expressions</b>	
<p><b>8.11.01</b> Simplify or identify equivalent algebraic expressions (e.g., exponential, rational, logarithmic, factored, polynomial).</p>	<p><b>Student Edition:</b>            14 Example 5, 48 #68-#69, 312-317, 321-324, 325-330, 417-418 Examples 4 and 6, 442-449, 451-452 Examples 3 through 5  <i>Practice Test</i> 379 #1-#6, 435 #22-#23, 493 #1-#6  <i>Standardized Test Practice</i> 380 #1, #4-#6  <i>Study Guide and Review</i> 50 #23-#25, 375, 433 #52-#54, 490</p> <p><b>Teacher Wraparound Edition:</b>            AE 313-315, 326-327, 443-446, 452</p>
<p><b>8.11.02</b> Represent mathematical relationships using symbolic algebra.</p>	<p>This standard can be met throughout the textbook. Specific examples are found on the following pages:</p> <p><b>Student Edition:</b>            18 Example 1, 36 Example 4, 44 Example 6, 81 Example 3, 239-240 Example 4, 367 #42, #44, 370 Example 2, 481 Example 3, 500-501 Example 3, 544-546 Examples 1 and 2  <i>Mid-Chapter Quiz</i> 32 #16-#17, #30</p> <p><b>Teacher Wraparound Edition:</b>            AE 19 #1, 36, 44 #6, 81, 239 #4, 481, 500</p>
<p><b>8.11.03</b> Identify essential quantitative relationships in a situation, and determine the class or classes of functions (e.g., linear, quadratic, exponential) that model the relationships.</p>	<p><b>Student Edition:</b>            473-478, 486 #44-#46  <i>Graphing Calculator Lab</i> 252, 293, 346-347, 518-519, 551  <i>Practice Test</i> 493 #7-#8  <i>Study Guide and Review</i> 492 8-5</p> <p><b>Teacher Wraparound Edition:</b>            AE 474-475</p>
<p><b>8.11.04</b> Determine a specific term, a finite sum, or a rule that generates terms of a pattern.</p>	<p><b>Student Edition:</b>            622-628, 629-635, 636-641, 643-649, 658-662  <i>Practice Test</i> 679 #1-#11, #13, #15-#16, #24-#25  <i>Spreadsheet Lab</i> 657  <i>Standardized Test Practice</i> 680 #2-#5, #11  <i>Study Guide and Review</i> 675-676, 677 11-6</p> <p><b>Teacher Wraparound Edition:</b>            A 628; AE 623-625, 630-632, 637-638, 644-646, 659-660; PAP 628, 635, 641, 662</p>

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<p><b>8.11.05</b> Model and describe slope as a constant rate of change.</p>	<p><b>Student Edition:</b> 71-77 <i>Mid-Chapter Quiz</i> 85 #15-#16 <i>Study Guide and Review</i> 108 2-3</p> <p><b>Teacher Wraparound Edition:</b> A 77; AE 72-74; PAP 77</p>
<p><b>8.11.06</b> Evaluate variable expressions and functions.</p>	<p><b>Student Edition:</b> 6-10, 17 #69-#70, 27 Example 1, 61 Example 4, 67 Example 2a, 238 Example 2b, 332 Example 2, 459 Example 2, 498 Example 1 <i>Study Guide and Review</i> 50 1-1, 303 #11b-#13b, 376 #24-#29</p> <p><b>Teacher Wraparound Edition:</b> AE 7, 28 #1, 61, 67 #2a, 238 #2b, 333 #2, 459 #2, 499</p>
<p><b>Standard 8B – Connections Using Tables, Graphs, and Symbols</b></p>	
<p><b>8.11.07</b> Identify an equation of a line or an equation of a line of best fit from given information (e.g., from a set of ordered pairs, graphs, tables).</p>	<p><b>Student Edition:</b> 86-91, 101 #55, 105 #48 <i>Graphing Calculator Lab</i> 92-94 <i>Practice Test</i> 111 #28 <i>Standardized Test Practice</i> 91 #21, 113 #8, 151 #33, 680 #2 <i>Study Guide and Review</i> 109 #36, #38</p> <p><b>Teacher Wraparound Edition:</b> AE 87; PAP 91</p>
<p><b>8.11.08</b> Recognize and describe the general shape and properties of functions from graphs, tables, or equations (e.g., linear, absolute value, quadratic, exponential, logarithmic).</p>	<p><b>Student Edition:</b> 66 Example 1, 98-99 Example 4, 286-292, 301 #64-#66, 334-335 Example 4, 339-345, 473-478, 503 #1-#3 <i>Standardized Test Practice</i> 300 #51, 338 #57, 401 #34, 517 #75</p> <p><b>Teacher Wraparound Edition:</b> A 478; AE 67 #1, 98 #4, 287-289, 334, 340-342, 474-475; FMC 287</p>
<p><b>8.11.09</b> Identify slope from an equation, table of values, or graph.</p>	<p><b>Student Edition:</b> 71-77, 84 #43-#45, 91 #27-#29 <i>Mid-Chapter Quiz</i> 85 #9, #11-#16 <i>Practice Test</i> 111 #16-#19 <i>Study Guide and Review</i> 108 2-3</p> <p><b>Teacher Wraparound Edition:</b> AE 72-74</p>

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<p><b>8.11.10</b> Interpret the role of the coefficients and constants on the graphs of linear and quadratic functions, given a set of equations.</p>	<p><b>Student Edition:</b> 288 Example 2, 289-291 #4, #19-#20, #33-#35 <i>Graphing Calculator Lab</i> 78, 284-285</p> <p><b>Teacher Wraparound Edition:</b> AE 288 #2; FMC 287</p>
<p><b>8.11.11</b> Analyze functions by investigating domain, range, rates of change, intercepts, and zeros.</p>	<p><b>Student Edition:</b> 59 Example 1, 68 Example 4, 72 Example 2, 97 Example 2, 237-238 Example 2, 286-292, 339-344, 397-401 <i>Graphing Calculator Lab</i> 73, 78, 97, 499, 511</p> <p><b>Teacher Wraparound Edition:</b> AE 59, 68 #4, 72 #2, 237 #2, 287-289, 340-342, 398-399</p>
<p><b>8.11.12</b> Create and connect representations that are tabular, graphic, numeric, and symbolic from a set of data.</p>	<p><b>Student Edition:</b> 86-91, 162 Example 1, 718-719 Example 2 <i>Graphing Calculator Lab</i> 92-94, 252, 293, 346-347, 518-519, 551 <i>Prerequisite Skills</i> 883-890 <i>Standardized Test Practice</i> 113 #11d, 558-559 #2, #7, 617 #7, 752 #3</p> <p><b>Teacher Wraparound Edition:</b> AE 87-88, 163 #1, 718 #2; PAP 91</p>
<p><b>8.11.13</b> Represent quantitative relationships graphically, and interpret the meaning of the graph or a specific part of the graph as it relates to the situation represented by the graph.</p>	<p><b>Student Edition:</b> 81 Example 3, 103 Example 2, 117 Example 3, 133 #5-#6, 134 #28-#30, 140-141 Example 3, 247 Example 3, 248 Example 5, 341-342 Example 4, 462 #33-#36 <i>Graphing Calculator Lab</i> 92-94, 293 #6, 518-519, 551 #4</p> <p><b>Teacher Wraparound Edition:</b> AE 81, 87, 103 #2, 117 #3, 140</p>
<p><b>Standard 8C, 8D – Writing, Interpreting, and Solving Equations</b></p>	
<p><b>8.11.14</b> Model problems using mathematical functions and relations (e.g., linear, non-linear).</p>	<p><b>Student Edition:</b> 70 #50, 81 Example 3a, 95-96 Example 1, 140-141 Example 3, 148-149 Example 4, 239-240 Example 4, 500-501 Example 3, 544-549 <i>Graphing Calculator Lab</i> 92-94, 252, 293, 346-347, 518-519, 551 <i>Reading Math</i> 65</p> <p><b>Teacher Wraparound Edition:</b> AE 96, 140, 148, 239 #4, 545-547</p>

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<p><b>8.11.15</b> Interpret the graph of a system of equations and inequalities, including cases where there are no solutions.</p>	<p><b>Student Edition:</b>            116-122, 129 #52-#54, 130-135, 144 #46-#47, 152 #36-#38  <i>Graphing Calculator Lab</i> 136  <i>Mid-Chapter Quiz</i> 137 #1-#4, #12-#13  <i>Practice Test</i> 157 #1-#10  <i>Standardized Test Practice</i> 158-159 #5, #7  <i>Study Guide and Review</i> 154 3-1, 155 3-3</p> <p><b>Teacher Wraparound Edition:</b>            AE 117-119, 131-132</p>
<p><b>8.11.16</b> Solve linear equations and inequalities, including selecting and evaluating formulas.</p>	<p><b>Student Edition:</b>            8 Example 2, 8-9 #7-#8, #33-#35, 20, 22 Example 8, 33-39, 41-42  <i>Mid-Chapter Quiz</i> 32 #18-#20, #22-#23  <i>Practice Test</i> 53 #15-#17, #21-#22, #24, #26-#28  <i>Standardized Test Practice</i> 54-55 #1-#3, #5-#6, #12c  <i>Study Guide and Review</i> 50 #19, 51 #28-#34, #39, 52 1-5, #54-#57</p> <p><b>Teacher Wraparound Edition:</b>            A 39; AE 8, 20, 22, 34-36, 42; PAP 21, 39</p>
<p><b>8.11.17</b> Solve systems of equations and inequalities.</p>	<p><b>Student Edition:</b>            116-122, 123-129, 130-135, 138-144, 145-152  <i>Graphing Calculator Lab</i> 136  <i>Mid-Chapter Quiz</i> 137  <i>Practice Test</i> 157  <i>Standardized Test Practice</i> 158-159 #1, #3-#8, #10-#11  <i>Study Guide and Review</i> 154-156</p> <p><b>Teacher Wraparound Edition:</b>            AE 117-119, 124-126, 131-132, 139-140, 146-148</p>
<p><b>8.11.18</b> Solve quadratic equations over the complex number system, including selecting and evaluating formulas.</p>	<p><b>Student Edition:</b>            246-251, 253-258, 268-275, 276-283  <i>Mid-Chapter Quiz</i> 267 #5-#16  <i>Practice Test</i> 307 #8-#17  <i>Standardized Test Practice</i> 308-309 #2-#3, #7-#8  <i>Study Guide and Review</i> 303 5-2, 304 5-3, 305</p> <p><b>Teacher Wraparound Edition:</b>            A 253; AE 247-248, 254-255, 269, 271</p>

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<p><b>8.11.19</b> Solve problems that include nonlinear functions, including selecting and evaluating formulas (i.e., absolute value, trigonometric, logarithmic, exponential).</p>	<p><b>Student Edition:</b>            95-101, 498-506, 509-517, 544-550, 861-866  <i>Graphing Calculator Lab</i> 507-508, 534-535, 860  <i>Practice Test</i> 557, 871 #19-#24  <i>Study Guide and Review</i> 553, 556, 870 14-7  <b>Teacher Wraparound Edition:</b>            A 517; AE 499-502, 510, 512-514, 545-547, 862-864</p>
<p><b>8.11.20</b> Identify, interpret, and write equations for circles and other conic sections.</p>	<p><b>Student Edition:</b>            567-573, 574-579, 581-588, 590-597, 598-602  <i>Algebra Lab</i> 580  <i>Mid-Chapter Quiz</i> 589 #7-#18  <i>Practice Test</i> 615 #7-#16, #24  <i>Standardized Test Practice</i> 617 #10  <i>Study Guide and Review</i> 610-613  <b>Teacher Wraparound Edition:</b>            A 579, 597; AE 568-571, 575-576, 582-585, 591-594, 599; PAP 573</p>
<p><b>8.11.21</b> Recognize and apply mathematical and algebraic axioms, theorems of algebra, and deductive reasoning.</p>	<p><b>Student Edition:</b>            356-361, 362-368, 369-373, 525 #45-#46, 526 #51, 533 #59c, 566 #37, 664-669, 694 #38  <i>Study Guide and Review</i> 377 6-7, 378, 678 11-7  <b>Teacher Wraparound Edition:</b>            A 373; AE 357-358, 363-365, 370-371, 665-667; PAP 669, 767</p>
<p><b>8.11.22</b> Identify equivalent forms of equations, inequalities, and systems of equations.</p>	<p><b>Student Edition:</b>            21 Examples 6 and 7, 23-25 #13-#15, #37-#41, #50-#51, #68, 118 Example 5, 120 #10, #22, #24, 842-846, 852 #47-#50, 859 #51-#52  <i>Mid-Chapter Quiz</i> 847 #16-#20  <i>Practice Test</i> 871 #8-#12  <i>Prerequisite Skill</i> 390 #64-#69  <i>Standardized Test Practice</i> 54 #6, 533 #62  <i>Study Guide and Review</i> 51 #35-#38, 154 #14, 869 14-4  <b>Teacher Wraparound Edition:</b>            AE 21, 118 #5, 843-844; DI 843; PAP 21</p>

STANDARDS	PAGE REFERENCES
<b>Standard 9A – Properties of Single Figures and Coordinate Geometry</b>	
<p><b>9.11.01</b> Apply the Pythagorean theorem.</p>	<p><b>Student Edition:</b>            16 #51, 563, 582, 586-587 #1, #9-#15, #26-#30, 760-761 Example 2, 764 #4, 776-777 Example 1, 780 Example 5, 781-782 #1-#3, #11-#12, #14-#21, #42-#45, 793  <i>Mid-Chapter Quiz</i> 589 #16  <i>Quick Quiz</i> 757 #1-#5  <i>Spreadsheet Lab</i> 758  <i>Standardized Test Practice</i> 112 #4, 767 #49  <b>Teacher Wraparound Edition:</b>            AE 582, 760 #2, 777 #1, 780</p>
<p><b>9.11.02</b> Identify and represent transformations (rotations, reflections, translations, dilations) of an object in the plane, and describe the effects of transformations on points in words or coordinates.</p>	<p><b>Student Edition:</b>            185-192, 200 #44-#45, 207 #39-#40, 214 #39-#41  <i>Mid-Chapter Quiz</i> 193 #15-#16  <i>Practice Test</i> 229 #16-#17  <i>Standardized Test Practice</i> 230 #1  <i>Study Guide and Review</i> 226 4-4  <b>Teacher Wraparound Edition:</b>            AE 186-188; PAP 192</p>
<p><b>9.11.03</b> Determine how changing the scale factor affects the size and position of a figure in the plane.</p>	<p><b>Student Edition:</b>            187 Example 3, 189 #6-#7, #16-#17, 191 #35, #45-#46  <b>Teacher Wraparound Edition:</b>            AE 187 #3</p>
<p><b>9.11.04</b> Classify plane figures according to their properties.</p>	<p>See Glencoe's <i>Geometry</i> © 2008</p>
<p><b>9.11.05</b> Identify, apply, or solve problems that require knowledge of geometric properties of plane figures (e.g., triangles, quadrilaterals, parallel lines cut by a transversal, angles, diagonals, triangle inequality).</p>	<p><b>Student Edition:</b>            47 #44-#45  <i>Mid-Chapter Quiz</i> 32 #23  <i>Standardized Test Practice</i> 10 #40, 26 #73, 184 #46, 231 #9, 437 #6</p>
<p><b>9.11.06</b> Identify a three-dimensional object from different perspectives.</p>	<p><b>Student Edition:</b>  <i>Standardized Test Practice</i> 681 #7, 753 #9</p>
<p><b>9.11.07</b> Identify the relationship between two-dimensional patterns (e.g., nets) and related three-dimensional objects (e.g., cylinders, prisms, cones).</p>	<p><b>Student Edition:</b>  <i>Standardized Test Practice</i> 381 #7-#8, 558 #1, 681 #7, 753 #9</p>

STANDARDS	PAGE REFERENCES
<p><b>9.11.08</b> Identify two- and three-dimensional figures that would match a set of given conditions.</p>	<p><b>Student Edition:</b>  <i>Standardized Test Practice</i> 113 #10</p>
<p><b>9.11.09</b> Solve problems that involve calculating distance, midpoint, and slope using coordinate geometry.</p>	<p><b>Student Edition:</b>            71 Example 1, 74-75 #1-#3, #13-#18, 562-566, 573 #48-#50, 579 #54-#56  <i>Mid-Chapter Quiz</i> 85 #11-#14, 589 #1-#4  <i>Practice Test</i> 615 #1-#6  <i>Standardized Test Practice</i> 77 #55, 616 #1-#2  <i>Study Guide and Review</i> 108 #23-#24, 610 10-1  <b>Teacher Wraparound Edition:</b>            A 566; AE 72, 563-564</p>
<p><b>9.11.10</b> Identify, apply, and solve problems that require knowledge of geometric relationships of circles (e.g. arcs, chords, tangents, secants, central angles, inscribed angles).</p>	<p>Writing equations of circles and graphing circles can be found on the following pages:  <b>Student Edition:</b>            574-579, 588 #39-#40, 597 #47  <i>Mid-Chapter Quiz</i> 589 #12-#14  <i>Standardized Test Practice</i> 617 #10c  <i>Study Guide and Review</i> 611 10-3  <b>Teacher Wraparound Edition:</b>            AE 575-576</p>
<p><b>9.11.11</b> Graph, locate, and identify points on a coordinate system.</p>	<p><b>Student Edition:</b>            58  <i>Prerequisite Skill</i> 184 #57-#60  <i>Quick Check</i> 57 #1-#6</p>
<p><b>Standard 9B – Relationships Between and Among Multiple Figures</b></p>	
<p><b>9.11.12</b> Solve problems involving similar figures.</p>	<p><b>Student Edition:</b>  <i>Prerequisite Skills</i> 879-880  <i>Standardized Test Practice</i> 681 #9</p>
<p><b>9.11.13</b> Solve problems using triangle congruence.</p>	<p>See Glencoe’s <i>Geometry</i> © 2008</p>
<p><b>9.11.14</b> Describe how two or more objects are related in space (e.g., skew lines, the possible ways three planes might intersect).</p>	<p><b>Student Edition:</b>            145</p>
<p><b>9.11.15</b> Identify relationships between circles and other objects in the plane (e.g., inscribed circles, concentric circles, internal/external tangency).</p>	<p><b>Student Edition:</b>  <i>Algebra Lab</i> 775</p>

STANDARDS	PAGE REFERENCES
<b>Standard 9C – Justifications of Conjectures and Conclusions</b>	
<p><b>9.11.16</b> Recognize and apply the conditions that assure congruence and similarity.</p>	<p><b>Student Edition:</b>  <i>Prerequisite Skills</i> 879-880  <i>Standardized Test Practice</i> 230 #5, 681 #8</p>
<p><b>9.11.17</b> Recognize and apply mathematical and geometric axioms, fundamental theorems of geometry, and deductive reasoning.</p>	<p><b>Student Edition:</b>            47 #44-#45, 563, 582, 760-761 Example 2, 776-777 Example 1, 780 Example 5  <i>Prerequisite Skills</i> 881-882  <i>Quick Check</i> 757  <b>Teacher Wraparound Edition:</b>            AE 760 #2, 777 #1, 780</p>
<p><b>9.11.18</b> Identify a counter-example to disprove a conjecture.</p>	<p><b>Student Edition:</b>            17 #59-#62, 100 #48, 199 #39, 265 #76, 354 #57, 368 #49, 477 #34, 526 #49-#50, 596 #38, 641 #56-#57, 722 #35, 767 #46, 783 #52, 858 #41  <i>Practice Test</i> 679 #23  <b>Teacher Wraparound Edition:</b>            PAP 17</p>
<b>Standard 9D – Trigonometry</b>	
<p><b>9.11.19</b> Determine distances and angle measures using indirect measurement (e.g., properties of right triangles, Law of Sines, Law of Cosines).</p>	<p><b>Student Edition:</b>            761-767, 785-792, 793-798, 805 #45-#46, 811 #51-#52  <i>Mid-Chapter Quiz</i> 784 #1-#2  <i>Practice Test</i> 817 #1-#4, #19-#20, #25  <i>Standardized Test Practice</i> 818-819 #7, #9  <i>Study Guide and Review</i> 813 13-1, 814 13-4, 815  <b>Teacher Wraparound Edition:</b>            AE 761-764, 786-789, 794-795</p>
<p><b>9.11.20</b> Solve problems using <math>45^\circ</math>-<math>45^\circ</math>-<math>90^\circ</math> and <math>30^\circ</math>-<math>60^\circ</math>-<math>90^\circ</math> triangles.</p>	<p><b>Student Edition:</b>  <i>Spreadsheet Lab</i> 758  <i>Standardized Test Practice</i> 805 #43</p>
<p><b>9.11.21</b> Identify graphs of a given trigonometric function (<math>\sin x</math>, <math>\cos x</math>) using its characteristics (e.g., period, amplitude).</p>	<p><b>Student Edition:</b>            822-828  <i>Practice Test</i> 871 #25  <i>Standardized Test Practice</i> 836 #48  <i>Study Guide and Review</i> 868 14-1  <b>Teacher Wraparound Edition:</b>            AE 825-826</p>

STANDARDS	PAGE REFERENCES
<p><b>9.11.22</b> Define, identify, and evaluate trigonometric ratios.</p>	<p><b>Student Edition:</b>            759-767, 776-783, 792 #42-#44, 798 #39-#41  <i>Mid-Chapter Quiz</i> 784 #1-#2, #4-#5, #14-#16  <i>Practice Test</i> 817 #1-#4, #11-#18  <i>Prerequisite Skill</i> 805 #52-#54  <i>Study Guide and Review</i> 813 13-1, 814 13-3</p> <p><b>Teacher Wraparound Edition:</b>            AE 760-764, 777-781</p>
<p><b>9.11.23</b> Use trigonometric identities (e.g., <math>\sin^2 x + \cos^2 x = 1</math>)</p>	<p><b>Student Edition:</b>            837-841, 842-846, 848-852, 853-859, 861-866  <i>Mid-Chapter Quiz</i> 847 #11-#20  <i>Practice Test</i> 871 #8-#24  <i>Study Guide and Review</i> 869-870</p> <p><b>Teacher Wraparound Edition:</b>            AE 838-839, 843-845, 849-850, 854-856, 862-864;            DI 838, 843; PAP 767, 841, 859</p>
<p><b>Standard 10A, 10B – Data Analysis and Statistics</b></p>	
<p><b>10.11.01</b> Read, interpret, predict, interpolate, extrapolate, and use information from a variety of graphs, charts, and tables.</p>	<p>This standard can be met throughout the textbook. Specific examples are found on the following pages:</p> <p><b>Student Edition:</b>            15 #10, 39 #65, 48 #66, 72 Example 2, 86-91, 337 #43-#45, 343 #19-#22, 722 #31-#33, #36-#37  <i>Graphing Calculator Lab</i> 518-519  <i>Standardized Test Practice</i> 55 #12a, 77 #56, 437 #5, 495 #7, 641 #60</p> <p><b>Teacher Wraparound Edition:</b>            AE 72 #2, 87-88; T 33, 339, 544-545, 741</p>
<p><b>10.11.02</b> Translate from one representation of data to another (e.g., a bar graph to a circle graph).</p>	<p><b>Student Edition:</b>            60 Example 2, 725 Example 1, 726-727 #1, #9-#11  <i>Standardized Test Practice</i> 559 #7</p> <p><b>Teacher Wraparound Edition:</b>            AE 60 #2, 725 #1</p>
<p><b>10.11.03</b> Solve problems involving Venn diagrams.</p>	<p><b>Student Edition:</b>            745 #39-#41</p> <p>Venn diagrams also can be found on the following pages:</p> <p><b>Student Edition:</b>            12, 261, 712</p>

STANDARDS	PAGE REFERENCES
<p><b>10.11.04</b> Find an unknown value in a dataset given information about descriptive statistics.</p>	<p><b>Student Edition:</b> 38 #50</p>
<p><b>10.11.05</b> Calculate, interpret, and use measures of central tendency and dispersion.</p>	<p><b>Student Edition:</b> 717-723, 728 #32-#33, 739 #45 <i>Prerequisite Skill</i> 715 #58-#63 <i>Standardized Test Practice</i> 752 #1, #3 <i>Study Guide and Review</i> 748 12-6</p> <p><b>Teacher Wraparound Edition:</b> AE 718; PAP 723</p>
<p><b>10.11.06</b> Compare two or more data sets on measures of central tendency and dispersion.</p>	<p><b>Student Edition:</b> 722 #27-#30, #36-#37 <i>Graphing Calculator Lab</i> 719</p> <p><b>Teacher Wraparound Edition:</b> PAP 723</p>
<p><b>Standard 10C – Probability</b></p>	
<p><b>10.11.07</b> Compute the probability of an event composed of single or repeated trials with or without replacement.</p>	<p><b>Student Edition:</b> 697-702, 703-709, 715 #48-#52, 723 #44-#47, 728 #34-#36 <i>Mid-Chapter Quiz</i> 716 #9-#16 <i>Standardized Test Practice</i> 752 #5 <i>Study Guide and Review</i> 746 12-3, 747 12-4</p> <p><b>Teacher Wraparound Edition:</b> A 709; AE 698-699, 704-706; PAP 702, 707</p>
<p><b>10.11.08</b> Compute probabilities for compound events.</p>	<p><b>Student Edition:</b> 710-714, 723 #42-#43, 728 #34-#36, 733 #32-#34 <i>Mid-Chapter Quiz</i> 716 #17-#21 <i>Study Guide and Review</i> 747 12-5</p> <p><b>Teacher Wraparound Edition:</b> AE 711-712</p>
<p><b>10.11.09</b> Determine geometric probability based on area.</p>	<p>See Glencoe’s <i>Geometry</i> © 2008.</p>

STANDARDS	PAGE REFERENCES
<p><b>10.11.10</b> Apply counting techniques (e.g., permutations, combinations, Fundamental Counting Principle).</p>	<p><b>Student Edition:</b>  684-689, 690-695, 702 #41-#44, 709 #57  <i>Mid-Chapter Quiz</i> 716 #1-#8  <i>Practice Test</i> 751 #1-#9, #12-#13, #15, #21  <i>Reading Math</i> 696  <i>Standardized Test Practice</i> 753 #12  <i>Study Guide and Review</i> 746 12-1 and 12-2</p> <p><b>Teacher Wraparound Edition:</b>  AE 685-686, 691-692; PAP 689</p>