



# Geometry

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STANDARDS	PAGE REFERENCES
<b>Algebra</b>	
<input type="checkbox"/> Understands, analyzes, represents, and applies functions.	<b>Student Edition:</b> 299 #30d, 562-570 <i>Graphing Technology</i> 572 <i>Study Tip</i> 299 <b>Teacher Edition:</b> AE 564-566
<input type="checkbox"/> Understands, analyzes, solves, and applies equations and inequalities.	<b>Student Edition:</b> P11-P14, P17-P18, 16 Example 5, 134-135, 196-203, 342-348, 360-365, 367-375, 544-545, 920 #32 <i>Concepts and Skills Bank</i> 1017-1019 <i>Geometry Lab</i> 204 <i>Study Tip</i> 920 <i>Test-Taking Tip</i> 849 <b>Teacher Edition:</b> AE 16 #5, 135, 197-199, 361-362; DI 203, 362
<input type="checkbox"/> Understands, analyzes, transforms, and applies algebraic expressions.	<b>Student Edition:</b> P10 <i>Concepts and Skills Bank</i> 1013-1016 <b>Teacher Edition:</b> AE P10; TWT P10

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<input type="checkbox"/> Understands, analyzes, approximates, and interprets rate of change.	<b>Student Edition:</b> 187-188, 190-191 #4, #18-#27 <i>Mid-Chapter Quiz</i> 195 #20 <i>Spiral Review</i> 212 #51 <i>Study Guide and Review</i> 225 #26 <b>Teacher Edition:</b> AE 188 #2
<input type="checkbox"/> Understands and applies recursion and iteration*.	<b>Student Edition:</b> <i>Geometry Lab</i> 503-504
<b>Geometry</b>	
<input type="checkbox"/> Represents and solves geometric problems by specifying locations using coordinates.	<b>Student Edition:</b> P16 Example 3, 7 Example 3, 33 #63, 60, 215, 301-306, 330 #45-#46, 412-413, 441 #34, 547 #30-#33, 664 #27 <i>Spiral Review</i> 511 #39, 623 #60 <i>Study Guide and Review</i> 312 <b>Teacher Edition:</b> AE P16 #3, 7 #3, 60, 302-303, 412; DI 303
<input type="checkbox"/> Understands and applies the basic principles of transformational geometry.	<b>Student Edition:</b> 294-299, 615-622, 624-629, 632-637, 641-648, 660-666 <i>Geometry Lab</i> 631, 650-652 <i>Geometry Software Lab</i> 640 <i>Graphing Technology Lab</i> 668-669 <b>Teacher Edition:</b> A 667; AE 295-296; DI 295, 621, 625, 633, 644, 661; TWT 296, 616
<input type="checkbox"/> Understands and applies properties and relationships of geometric figures.	<b>Student Edition:</b> 56-63, 67-73, 235-241, 244-251, 253-260, 283-290, 322-330, 333-340, 342-348, 360-365, 367-375, 389-396, 399-406, 419-424, 426-433, 435-443, 683-690 <i>Geometry Lab</i> 75 <i>Geometry Software Lab</i> 65-66 <i>Graphing Technology Lab</i> 359

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<input type="checkbox"/> Uses trigonometry based on triangles and circles to solve problems about length and angle measures.	<p><b>Student Edition:</b>            562-570, 574-580, 582-590  <i>Geometry Software Lab</i> 592  <i>Graphing Technology</i> 572  <i>Graphing Technology Lab</i> 561  <i>Practice Test</i> 607 #16-#18, #22, #25  <i>Standardized Test Practice</i> 610-611 #4, #6-#7, #10  <i>Study Guide and Review</i> 604 8-4, 605</p> <p><b>Teacher Edition:</b>            A 581; AE 563-566, 575-576, 583-585; DI 566, 575, 576, 585</p>
<input type="checkbox"/> Uses diagrams consisting of vertices and edges (vertex-edge graphs) to model and solve problems.	<p><b>Student Edition:</b>  <i>Geometry Lab</i> 946-947</p>
<b>Statistics and Probability</b>	
<input type="checkbox"/> Understands and interprets descriptive statistics.	<p>See <i>Algebra 1</i> © 2010 for the following references.</p> <p><b>Student Edition:</b>            P37, 746, 757  <i>Check Your Understanding</i> 759  <i>Concept Summary</i> 746, 757  <i>Example</i> P37, P38, 757, 758  <i>Exercises</i> P39  <i>Key Concept</i> 757, 758  <i>Practice and Problem Solving</i> 759-761  <i>Real-World Example</i> 759</p> <p><b>Teacher Edition:</b>            AE P37, P38, 747, 758, 759; DI 758; TNT P39</p>
<input type="checkbox"/> Understands and interprets inferential statistics.	<p>See <i>Algebra 2</i> © 2010 for the following references.</p> <p><b>Student Edition:</b>            780-784  <i>Study Guide and Review</i> 797 #29-#36</p> <p><b>Teacher Edition:</b>            AE 781</p>

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<input type="checkbox"/> Understands and applies the basic ideas of probability.	<p><b>Student Edition:</b>            P8-P9, 906-913, 915-920, 931-936, 938-944  <i>Quick Check</i> 897 #8-#15  <i>Standardized Test Practice</i> 914 #29-#30, 921 #40, #42-#43, 930 #26, #28-#29, 937 #28, #30-#31, 945 #35-#36, #38</p> <p><b>Teacher Edition:</b>            A 914; AE P8-P9, 907-910, 916-917, 932-934, 939-942; DI 913, 932; TWT 907</p>
<b>Quantitative Literacy</b>	
<input type="checkbox"/> Understands and applies number operations and properties.	<p>This objective can be found throughout the textbook. The following are examples:</p> <p><b>Student Edition:</b>            P19-P20, 134-140, 342  <i>Skills Review</i> 12, 21, 96, 252, 358, 511, 735, 886, 914  <i>Study Tip</i> 766  <i>Quick Check</i> 3 #6-#15  <i>Vocabulary Link</i> 143</p> <p><b>Teacher Edition:</b>            A 141; AE P19-P20, 135-136; DI 139</p>
<input type="checkbox"/> Understands and applies the basic mathematics of decision making in a democratic society	<p>The following reference for decision making can be used to meet this objective.</p> <p><b>Teacher Edition:</b>            DI 913</p>
<input type="checkbox"/> Understands and applies the basic mathematics of information processing and the Internet ( <i>informatics**</i> ).	<p>The following references for the use of technology can be used to meet this objective.</p> <p><b>Student Edition:</b>  <i>Geometry Software Lab</i> 65-66, 177, 640  <i>Graphing Technology Lab</i> 185, 292-293, 359, 464, 561, 668, 743, 771, 855  <i>Spreadsheet Lab</i> 781</p> <p><b>Teacher Edition:</b>            TWT 26, 187, 345, 421, 497, 721, 875</p>
<input type="checkbox"/> Understands and applies the mathematics of systematic counting ( <i>combinatorics**</i> ).	<p><b>Student Edition:</b>            899-904, 906-913  <i>Practice Test</i> 951 #3-#4, #7-#8, #10-#11  <i>Spiral Review</i> 914 #33, 921 #44, 930 #32  <i>Study Guide and Review</i> 949 13-1, 13-2</p> <p><b>Teacher Edition:</b>            A 905; AE 901, 907-910; DI 904, 909</p>

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<b>Problem Solving</b>	
<input type="checkbox"/> Builds new mathematical knowledge through problem solving.	<p>This objective can be found throughout the textbook. The following are examples:</p> <p><b>Student Edition:</b>  <i>Geometry Lab</i> 243, 281-282, 503-504, 540, 631, 790  <i>Geometry Software Lab</i> 65-66, 177, 592, 640  <i>Graphing Technology</i> 572  <i>Graphing Technology Lab</i> 185, 359, 398, 408, 561, 743, 771-772, 855</p> <p><b>Teacher Edition:</b>            TWT 466</p>
<input type="checkbox"/> Applies and adapts a variety of appropriate strategies to solve problems in mathematics and other contexts.	<p>This objective can be found throughout the textbook. The following are examples:</p> <p><b>Student Edition:</b>  <i>Mixed Problem Solving</i> 999-1011  <i>Problem-Solving Handbook</i> 958-969  <i>Real-World Example</i> 17, 70, 115, 188, 275, 324, 391, 487, 534, 596, 653, 685, 712, 782, 824, 867, 901, 939</p>
<input type="checkbox"/> Monitors and reflects on the process of mathematical problem solving.	<p><b>Student Edition:</b>  <i>Preparing for Standardized Tests</i> 82-83, 382-383, 608-609, 676-678, 892-893, 952-953  <i>Problem-Solving Tip</i> 48, 127, 199, 245, 369, 430, 478, 555, 661, 719, 737, 787, 853, 924</p>
<b>Communication (Reading, Writing, Speaking, Listening, Viewing)</b>	
<input type="checkbox"/> Organizes and consolidates his/her mathematical thinking through communication.	<p>This objective can be found throughout the textbook. The following are examples:</p> <p><b>Student Edition:</b>  <i>H.O.T. Problems</i> 20 #37, 112 #68, 211 #42, 241 #64, 306 #37, 406 #45, 622 #46, 629 #33, 734 #36, 748 #39</p> <p><b>Teacher Edition:</b>            A 104, 280, 444, 878; DI 173, 528F (Verbal/Linguistic), 704, 797, 882; TWT 497</p>

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<input type="checkbox"/> Communicates his/her mathematical thinking coherently and clearly to peers, teachers, and others.	<p>This objective can be found throughout the textbook. The following are examples:</p> <p><b>Student Edition:</b>  <i>H.O.T. Problems</i> 11 #61, 95 #54, 241 #64, 406 #45, 629 #34, 807 #29</p> <p><b>Teacher Edition:</b>            DI 122, 173, 236, 285, 318D (Interpersonal), 680F (Kinesthetic/Interpersonal), 760F (Verbal/Linguistic), 797, 783, 934; TWT 16, 90, 118, 497</p>
<input type="checkbox"/> Analyzes and evaluates the mathematical thinking and strategies of others.	<p><b>Student Edition:</b>  <i>H.O.T. Problems</i> 11 #58, 73 #37, 112 #63, 147 #17, 211 #37, 260 #37, 357 #43, 396 #49, 443 #65, 516 #21, 559 #46, 622 #45, 658 #46, 741 #26, 787 #44, 853 #42, 920 #34, 936 #23, 944 #28</p> <p><b>Teacher Edition:</b>            DI 694</p>
<input type="checkbox"/> Uses the language of mathematics to express mathematical ideas precisely.	<p>This objective can be found throughout the textbook. The following are examples:</p> <p><b>Student Edition:</b>  <i>H.O.T. Problems</i> 20 #37, 34 #68, 211 #42, 241 #64, 406 #45, 622 #51, 741 #31, 798 #39</p> <p><b>Teacher Edition:</b>            A 54, 341, 444; DI 122, 173, 236, 285, 680F, 797 (Kinesthetic/Interpersonal), 783, 934; TWT 497</p>
<b>Reasoning and Proof</b>	
<input type="checkbox"/> Recognizes reasoning and proof as fundamental aspects of mathematics.	<p>This objective can be found throughout the textbook. The following are examples:</p> <p><b>Student Edition:</b>            11 #60, 89-95, 97-103, 105-112, 115-122, 125-131, 134-140, 142-147, 149-156, 279 #24, 351-357, 414 #15-#16, 482 #39, 511 #39, 629 #30, 707 #29-#30, 836 #41  <i>Geometry Lab</i> 114, 124</p> <p><b>Teacher Edition:</b>            ITC 86</p>

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<input type="checkbox"/> Makes and investigates mathematical conjectures.	<p>This objective can be found throughout the textbook. The following are examples:</p> <p><b>Student Edition:</b>            89-95  <i>Geometry Lab</i> 281 #6, 631 #4, 652 #12  <i>Geometry Software Lab</i> 592 #3-#5, 640 #4, #6  <i>Graphing Technology Lab</i> 185 #5, 293 #5, 359 #4, 464 #5, 561 #3, 669 #9, 743 #3-#4, 771 #2, 772 #4, 855 #5  <i>Spreadsheet Lab</i> 781 #2</p> <p><b>Teacher Edition:</b>            AE 90-91; DI 129; TWT 90</p>
<input type="checkbox"/> Develops and evaluates mathematical arguments and proofs.	<p>This objective can be found throughout the textbook. The following are examples:</p> <p><b>Student Edition:</b>            125-131, 134-140, 142-147, 149-156, 208 Real-World Example 3, 219 #30, 262-269, 273-279, 301-306, 351-357, 412-413 Example 5, 647-648 #30, #36-#37, 698 #52, 707 #29-#30, 714-715 #21-#22, #37-#40, 724 #32-#33, 733 #30-#33, 806 #22  <i>Geometry Lab</i> 271</p>
<input type="checkbox"/> Selects and uses various types of reasoning and methods of proof.	<p>This objective can be found throughout the textbook. The following are examples:</p> <p><b>Student Edition:</b>            11 #60, 34 #69, 89-95, 115-122, 125-131, 134-140, 246, 301-306, 351-357, 462 #46, 648 #41, #43, 714-715 #21-#22, #42-#46, 827 #36, 936 #25</p> <p><b>Teacher Edition:</b>            AE 90-92, 116-118, 126-127, 135-136; DI 117, 122</p>
<b>Representation</b>	
<input type="checkbox"/> Creates and uses representations to organize, record, and communicate mathematical ideas.	<p><b>Student Edition:</b>            20 #36b, 73 #36, 122 #41, 202 #54, 348 #42, 375 #37, 570 #61, 823-827, 899-900, 923-929  <i>Geometry Lab</i> 540, 821-822, 946-947  <i>Graphing Technology Lab</i> 668-669  <i>Preparing for Standardized Tests</i> 952-953  <i>Problem-Solving Tip</i> 853  <i>Spreadsheet Lab</i> 781</p> <p><b>Teacher Edition:</b>            A 123; DI 10, 69</p>

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<input type="checkbox"/> Selects, applies, and translates among mathematical representations to solve problems.	<p><b>Student Edition:</b>            11 #54, #56, 73 #36, 122 #41, 139 #28, 199, 211 #36, 339 #33, 512-516, 570 #61, 629 #29, 658 #45, 748 #32, 787 #43, 899-900, 904 #24, 929 #19  <i>Geometry Lab</i> 601  <i>Preparing for Standardized Tests</i> 952-953  <i>Problem-Solving Tip</i> 48  <i>Study Tip</i> 496</p>
<input type="checkbox"/> Uses representations to model and interpret physical, social, and mathematical phenomena.	<p><b>Student Edition:</b>            43 #48d, 122 #41, 139 #28, 202 #54, 512-516, 570 #61d, 823-827, 923-929  <i>Geometry Lab</i> 75, 503-504 #5b, #6, #8-#12, 540, 821-822, 829, 946-947  <i>Graphing Technology Lab</i> 668-669  <i>Preparing for Standardized Tests</i> 952-953  <i>Problem-Solving Tip</i> 853, 924</p> <p><b>Teacher Edition:</b>            A 123; DI 69</p>
<b>Connections</b>	
<input type="checkbox"/> Recognizes and uses connections among mathematical ideas and how they build on one another to produce a coherent whole.	<p>This objective can be found throughout the textbook. The following are examples:</p> <p><b>Student Edition:</b>  <i>Geometry Lab</i> 204 #7, 551 #21  <i>Graphing Technology Lab</i> 771-772 #2, #4  <i>H.O.T. Problems</i> 122 #46, 375 #42, 516 #25, 548 #52, 741 #27, 779 #38, 853 #47</p> <p><b>Teacher Edition:</b>            A P14, 74, 132, 203, 417, 591, 649, 708, 930; DI 40</p>
<input type="checkbox"/> Recognizes and applies mathematics in contexts outside of mathematics.	<p>This objective can be found throughout the textbook. The following are examples:</p> <p><b>Student Edition:</b>            63 #43, 241 #54, 355 #22, 509 #12, 705 #15  <i>Geometry Lab</i> 829, 879  <i>H.O.T. Problems</i> 690 #52  <i>Real-World Example</i> 37, 179, 429, 616, 804  <i>Spreadsheet Lab</i> 781</p> <p><b>Teacher Edition:</b>            A 12; DI 11, 203, 621, 698, 738</p>