Precalculus Assignments Chapter 5.1 - 5.3

See all state frameworks online at: <https://bit.ly/2bmrqQx>

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| Day 1 | Factoring Review Worksheet |
| Day 2 | Section 5.3: Solving Trigonometric Equations Objectives: *Students will be able to use standard algebraic techniques to solve trigonometric equations, solve trigonometric equations of quadratic type, involving multiple angles, and use inverse trigonometric functions to solve trigonometric equations.*  - Section 5.3 Book Assignment: Page 370: Vocabulary Check 3; Exercises: 5, 9, 11-27 odd, 29-37 odd. 39-45 odd, and 49. (Check odd solutions at: <https://bit.ly/2Om2JRz>) (Instructional Videos at: <https://bit.ly/2OlWAVE>) |
| Day 3 | - Worksheet 5.3 (Check Solutions at: <https://bit.ly/2AUK0Jo>)  - Webassign 5.3 |
| **Day 4** | **- Quiz 5.3. No Calculator Allowed.** Section 5.1: Using Fundamental Identities Objectives: *Students will be able to recognize and write the fundamental trigonometric identities, use the fundamental trigonometric identities to evaluate trigonometric functions, simplify trigonometric expressions, and rewrite trigonometric expressions.*  - Section 5.1 Book Assignment: Page 353 Vocabulary Check 1-6; Exercises: 7-11 odd, 13-18, 19-23, 25, 27, 43-44, 49-50, 53-56, and 71. (Check solutions at: <https://bit.ly/2SwbBYa>)  (Instructional Videos at: <https://bit.ly/2Suq1Ih>) |
| Day 5 | - Finish teaching Section 5.1 (if needed)  - Answer Questions from Section 5.1.  - Webassign 5.1 |
| **Day 6** | **- Quiz 5.1. No Calculator Allowed.**  Section 5.2: Verifying Trigonometric Identities Objectives: *Students will be able to recognize and write the fundamental trigonometric identities, use the fundamental trigonometric identities to evaluate trigonometric functions, simplify trigonometric expressions, and rewrite trigonometric expressions.*  - Section 5.2 Book Assignment: Page 360 Vocabulary Check 1-8; Exercises: 9-17 odd,19,31,  44, 55-56,and 63. (Check solutions at: <https://bit.ly/2Jzc3kq>)  (Instructional Videos at: <https://bit.ly/2SvYKoH>) |
| Day 7 | - Questions from Section 5.2- Review 5.1-5.3 for Test (Check Solutions: <http://bit.ly/1iAmDbs>) |
| **Day 8** | **- Quiz 5.2. No Calculator Allowed.**  - Questions from Review 5.1-5.3 |
| **Day 9** | **- Test 5.1-5.3. No Calculator Allowed** |

**Precalculus Assignments Chapter 5.1-5.3**

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| T.3.PC.9 | Define and use reciprocal functions, cosecant, secant, and cotangent to solve problems | Not Applicable |
| T.4.PC.5 | Recognize that some trigonometric equations have infinitely many solutions and be able to state a general formula to represent the infinite solutions | Not Applicable |

Assignment

Day 1 Section 5.1 Using Fundamental Identities

*Objective: Students will be able to recognize and write the fundamental trigonometric identities, use the fundamental trigonometric identities to evaluate trigonometric functions, simplify trigonometric expressions, and rewrite trigonometric expressions.*

Pages 345-346 Vocabulary Check 1-10; Exercises: 1-9 odd, 13, 15-27 odd, 31-37 odd, 41, 43, 47, 49, 50, 53, 55, 59, 61, 63, 65, 70-74 all, 77, 79, 83, 85, 87, 99-105 odd.  
(Check Solutions: <http://bit.ly/1LMvqBo>)

**Day 2**  Section 5.1 Answer questions then **Quiz 5.1 Start Section 5.2**

Day 3Section 5.2 Verifying Trigonometric Identities

*Objective: Students will be able to verify trigonometric identities.*

Pages 353-355 Vocabulary Check 1-10; Exercises: 1, 3, 7-19 odd, 20, 21-27 odd, 33-37 odd, 43, 45, 49, 50, 51-61 odd, 65, 73, 74

(Check Solutions: <http://bit.ly/1P6oHX5>)

**Day 4** **Quiz 5.2**

Section 5.3 Solving Trigonometric Equations

*Objective: Students will be able to use standard algebraic techniques to solve trigonometric equations, solve trigonometric equations of quadratic type, involving multiple angles, and use inverse trigonometric functions to solve trigonometric equations.*

Page 364: Vocabulary Check 1-3; Exercises: 1, 3, 6, 8-16, 18, 20, 22-28

(Check Solutions: <http://bit.ly/20oq0nW>)

Day 5 Section 5.3 continued. Pages 364-367 Do 32, 37, 40, 41, 43, 45, 46, 47, 51, 60, 61, 67, 69, 74

Worksheet 5.3 Solving Trig Equations

(Check Solutions: <http://bit.ly/20oq0nW> and Worksheet Solutions: <http://bit.ly/1MEHp7F>)

**Day 6** Answer questions on Worksheet 5.3 then **Quiz 5.3** Review 5.1-5.3 for Test

(Check Solutions: <http://bit.ly/1iAmDbs>)

**Day 7** **Test 5.1-5.3**