Daily Lesson Plans for PreCalculus

Solving Equations and other applications 5.1-3

Tuesday, November 5, 2019

Objective: I can factor any quadratic expression that is factorable.

* Band students absent for state competition.
* Notes – back to Algebra II: factoring by grouping, factoring by “backwards foil”.
* Answers to problems assigned on worksheet.
* Divide into groups by your “style” and/or comfort level of factoring.
* Finish the worksheet that we started for homework with your group.
* Do 12 question worksheet together with one recorder: factoring quadratic trinomials when a does not equal 0.
* Additional practice from old worksheet.
* Absent students finish worksheet and get 12 questions from downloadable worksheet online.

Factoring graded next time: HW #6

Thursday, November 7, 2019

Objective: I can solve equations that involve trigonometric expressions, using my algebra knowledge and my trig knowledge to think of the possible repetition of solutions on the unit circle or the graph of the function.

* Notes and practice 5.3 – solving trig equations. Keep trying!
* HW #7 – from textbook. See first assignment on Unit 5.1-3 Assignment Sheet
* View tests
* Time to practice with homework.

Quiz Wed, Nov 13 – 5.3, no calculator

Monday, November 11, 2019

Objective: I can solve equations that involve trigonometric expressions, using my algebra knowledge and my trig knowledge to think of the possible repetition of solutions on the unit circle or the graph of the functions.

* Check/question HW #7
* Work on Pun Equation Solving Activity
* Take a grade on HW #7 (4 pts), on factoring if you are in band (6 pts)
* HW #8 – equation solving worksheet
* Webassign 5.3 – due Tues, 11/12 at 11:59 pm

Quiz Wednesday, Nov 13 – 5.3 – no calculator

Wednesday, November 13, 2019

Objective: I can evaluate and simplify expressions using trig functions. I can demonstrate mastery over solving equations with trig expressions in them by factoring and using trig identities, giving infinite answers or answers over an interval.

* Answers to review worksheet 5.3 (HW #8). Questions. Hints.
* Go over most missed on webassign.
* Notes and Practice 5.1 – simplifying trig expressions by definition, factoring, identities, and substitution
* Quiz 5.3 – first six questions
* HW #9 from textbook – pp 353-4: 1-6, 7-11 odd, 13-18, 19-23, 25, 27, 43, 44, 49, 50, 53-56, 71.

Friday – Finish last 3 questions of Quiz 5.3

Monday – Quiz 5.1

Friday, November 15, 2019

Objective: I can evaluate and simplify expressions using trig functions. I can demonstrate mastery over solving equations with trig expressions over a given interval or with multi-angles.

* 2nd part of 5.3 equations quiz
* Initial HW #9 from textbook, to be graded next time.
* Answers to HW #9 from textbook handed out. Help each other figure out mistakes.
* Practice worksheet for 5.1. Self-check in class.
* Work on webassign 5.1 – due Monday night at 11:59. Use Chromebooks and work in class.

Quiz Tuesday, 5.1 – Simplifying Trig Expressions, no “intense” identities.

Tuesday, November 19, 2019

Objective: I can demonstrate mastery over simplifying trigonometric expressions. I can verify trig identities.

* Warm-up: recognizing patterns in complementary angles and connecting to cofunction identities; which are even and odd and why?
* Questions over HW #9 and over worksheet done in class. Can you do these?
* Key questions on webassign. (Sin2x)2= sin4x hin
* Hints on process with identities. Why we work on one side only. How much work to show. When even/odd can be helpful. One example.
* Quiz 5.1
* HW #10 – textbook p 360:1-9,11-23odd, 31, 44, 55, 56, 63

Quiz 5.2 – wed after break. Test Friday after break. Will learn 5.4 before holiday and quiz it.

Thursday, November 21, 2019

Objective: I can verify trig identities and simplify expressions using trig identities.

* Go over HW #10 – answers and questions and show me
* Reiterate difference between simplify and verify.
* In class assignment: (complete outside of class if absent) p 360-1: 31-35, 51-52, 66, p 353: 24, 26, 28, 32, 33, 35 and then 11-13 trig identities problems from worksheet done in class on 11/15.
* Take a grade on HW #10 – 4 pts

Quiz 5.2 – Wed, Dec 4, 2019, Test 5.1-3 – Friday, Dec 6, 2019, Quiz 5.4 – Thurs, Dec 12, 2019

Final reviews given out on Wednesday, Dec 4. 5.1-3 reviews given out on Monday, Dec 2.

Monday, December 2, 2019

Objective: I can practice applying skills related to trig identities (simplify/verify) and the entire unit over 5.1-3.

* Warm-up: what is the difference between simplifying an expression using identities and verifying a trig identity.
* Try these two simplifies. How are they the same? How are they different? Issue with simplify: where to stop? There is not always one right answer. Whereas when verifying an identity, you know exactly where you are headed.
* Quiz Wednesday – 20 pts – 6 identities to verify, choose 4.
* Finish the identity assignment listed on the previous block.
* Check answers. Ask questions.
* When you finish the assignment, Ms. Bogart will take a 6 pt grade.
* Pass out Test Review 5.1-3. Work in class when you finish working on identity assignment.

Quiz Wed, Dec 4, 5.2 – 20 pts, Test Friday, Dec 6, 5.1-3 – 100 pts

Wednesday, December 4, 2019

Objective: I can demonstrate mastery over verifying trig identities. I can apply sum and difference formulas to find values of previously unknown angles on the unit circle. I can apply skills from 5.1-3 to prepare for test.

* Quiz 5.2 – 20 pts
* Work on new webassign review 5.1-3 – Due Thurs, Dec 5, 11:59 pm.
* Go over answers to Unit Review assignment.
* Notes and Practice – sum and difference formulas… why do we do this? What are the skills you know that you can use to solve these problems? Always make a sketch. Formulas will be available for assessments.
* Issues about final.
* Answers to quiz.
* Only homework is to finish webassign and get ready for test Friday. I suggest studying all basic trig identities from first page of section 5.1 in textbook.

Test Friday, 5.1-3 – 100 pts

Friday, December 6, 2019

Objective: I can demonstrate mastery over 5.1-3.

* Go over any questions on webassign
* Any questions on unit review
* Preview again 5.4 – HW #12 and notes to help you do it handed out before lunch.
* Return Quizzes 5.2 – 20 pts
* Test 5.1-3 – 100 pts

Tuesday, December 10, 2019

Objective: I can find values on the unit circle or other triangles for which I do not know special points using sum and difference formulas (provided)

* Answers to HW #12 – go over in detail
* How to solve equations, go over in detail.
* Worksheet 5.4 – work on in class and check as you go.
* Pass out final review. Get at least the first page done by next time.
* View test results.
* Quiz 5.4 next time. There is not an arcsin problem. There is an equation to solve.

Next time: notes for final, notecard, replace grade, etc.

Thursday, December 12, 2019

Objective: I can demonstrate mastery over sum and difference formulas.

* Answers to review worksheet.
* Demonstrate: solve an equation
* Quiz 5.4 – 20 pts
* Work on review.
* Answers to first two pages.
* Pass out 4.1-3 test. Look for questions like review.
* Work on review; turn in old test.
* Answers to quiz on screen.