Mrs. Medlen
Pre-Calculus
Lesson Plans

CARROLL HIGH SCHOOL

	Monday 9/25	Tuesday 9/26	Wednesday 9/27	Thursday 9/28	Friday 9/29
ACCRS (Objectives):	*#18 Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for complicated cases [F-IF7].* *#27 Use the sum, difference, and half-angle identities to find exact values of trig functions. [AL]* *#30 Use the unit circle to explain symmetry (odd and even) and periodicity of trigonometric functions [F-TF4].* *#33 Use the Pythagorean identity to find trig values. [AL]* *#32Use inverse functions to solve trig equations. [F-TF7]*				
Before:	*Review HW (Trig Equations by factoring GCF)	*Review HW *Warm-Up Set (Trig Equations)	*Review HW *Activity: What to do When –Trig Equations	*Quiz (Solving Trig Equations)	*Review HW Set /Review Quiz
During:	*Lesson: Solving Trig Equations (Factoring & Pythagorean Identities)	*Lesson: Solve Equations (Squaring Both Sides)	*Stamp Activity: Trig Equations	*Lesson: Law of Sines and Cosines	*Lesson: Sum and Difference Formula
After:	*Group Collaboration Set/HW Set	*Group Collaboration Set/HW Set	*Finish Stamp Activity *Quiz Practice Problems w/ Solutions	*Group Collaboration Set/HW Set	*Group Collaboration Set
Desired Outcome:	Students will be able to solve trig equations using a variety of techniques.			Students will be able to use the Law of Sines/Cosines formulas to solve problems.	Students will be able to use the sum and difference formulas to solve problems from the unit circle.
Formative/ Summative:	Student questioning throughout lesson and group collaboration	Student questioning throughout lesson and group collaboration	Stamp Activity	Quiz Student questioning throughout lesson and group collaboration	Student questioning throughout lesson and group collaboration
Critical Questions:	*Explain how the trig identities can be used to solve trig equations.*	*Explain why extraneous solutions occur when you are squaring both sides of a trig eqn.*	*Explain the different techniques for solving trig equations---how do you know which one to use?*	*Explain when to use the law of sine/cosines.*	*Explain when to use the sum and difference formulas.*