**Pre-Calculus Honors Topics and Assignments Units 6 & 7**

*\*Bold assignments must be accessed on my website.\**

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| TOPICS | ASSIGNMENTS |
| Unit Circle and Trigonometric Values from the Unit Circle | *Study the unit circle and trig values.***Supplemental Worksheet: The Unit Circle**(evens) |
| Graph Sine, Cosine, Secant, and Cosecant Functions | **Supplemental Worksheet: Graphing Trig** **Functions #’s** (1-3)(12-14)*Study the unit circle and trig values.* |
| Graph Cotangent and Tangent FunctionsPart I: Trig Equation from Stated Facts or GivenGraph | **Supplemental Worksheet: Graphing Trig** **Functions #’s**(5-11 odd)(15-22)*Study the unit circle and trig values.* |
| **Quiz: Unit Circle and Synthesis of the Unit Circle**Part II: Trig Equation from Stated Facts or GivenGraph | **Supplemental Worksheet: Graphing Trig** **Functions #’s** (5-11 odd)(15-22) |
| Right Triangle Trig and the SixTrig Functions, Coterminal Angles, Point on the Terminal Side of an Angle, and Reference Angles | p.366(4,10,50,56), p.381(1,2,4,8,9,43,46)*Study for Graphing Quiz* |
| Applications of Right Triangles  | p.432(4,5,8,12,15,16)**Notes: Law of Sines, Law of Cosines, Area & Bearings**  |
| Review of Unit 6  | **Unit 6 Review Worksheet***Study for Unit 6 Test* |
| **Test: Unit 6** |  |
| Inverse Trig Functions I. Simplify. 1. 2. 3.4. II. State the reference angle in the given unit. 1. $-137°$ 2. $987°$ 3. $\frac{7π}{10}$ 4. $\frac{35π}{3}$ | p.421(10,24,26,29,30,32) and Parts I & II in the box next door! |
| Inverse Trig Functions Day 2 | 4.7 Inverse Trig Functions Worksheet |
| Law of Cosines and Sines, Area and Bearings Part I | p.494(9,17,21,29,31,33,38), p.484(13,21,38,40)*Study for quiz.* |
| **Quiz: Unit Circle Synthesis and Inverse Trig**Applications of Trig | **Supplemental Worksheet: Law of Sines, Cosines, Area and Bearings** |
| Review Unit 7Angular Speed, Linear Velocity and Arc Length | *Study for Unit 7 Test* |
| **Test: Unit 7** | p.356(34,35,37,43,44a) |
| Reciprocal, Co-Function, Odd/Even and Pythagorean Identities | **Supplemental Worksheet: Trigonometric Identities #1 (Evens)***Study for Unit 7 Test* |
| Solving Trigonometric Equations (Single Angle) | **Supplemental Worksheet: Solving Trigonometric Equations** (1,2,6,7,9,15,26,35) |
| Solving Trigonometric Equations (Multiple Angle) | **Supplemental Worksheet: Solving Trigonometric Equations** (3,4,13,18,28,30,31,32) |
| Sum and Difference, Half Angle, Double Angle and Power Reducing Identities | p.468(5,6,7,12,23), p.475(16,18,40) |
| Solving complex equations and identitiesReview of Unit 8 | **Unit 7 Review Worksheet***Study for Unit 7 Test* |
| **Unit 8 Test** | Perform the indicated operation. Use: $u=\left〈-2, 6\right〉$, $v=\left〈5, -1\right〉, w=\left〈0, -3\right〉$1. **u + v** 2. 3**w** 3. 2**v** – w 4. $\frac{1}{2}u$5. 2(**u** – **v** +**w**) |