**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 Functions  Part 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. 2. 3. 4. | 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 7  Angular 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 identities  Review of Unit 8 | **Unit 7 Review Worksheet**  *Study for Unit 7 Test* |
| **Unit 8 Test** | Perform the indicated operation.  Use: ,  1. **u + v** 2. 3**w** 3. 2**v** – w 4. 5. 2(**u** – **v** +**w**) |