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| **OBJECTIVES: CHAPTER 5, Sections 5 and 6 (Pages 427 – 441)** | **OBJECTIVES: CHAPTER 5, Section 5 (Pages 427 – 434)** |
| Know what must be given in order to use the Law of Sines: AAS, ASA, and **SSA** (The Ambiguous Case!) | Know what must be given in order to use the Law of Sines: AAS, ASA, and **SSA** (The Ambiguous Case!) |
| Solve triangles using the Law of Sines.  | Solve triangles using the Law of Sines.  |
| Solve real world problems using the Law of Sines. | Solve real world problems using the Law of Sines. |
| Know what must be given in order to use the Law of Cosines: SAS, SSS |  |
| Solve triangles using the Law of Cosines. |  |
| Solve real world problems using the Law of Cosines. |  |

**TUESDAY (1.7.25)** * Review the Law of Sines and the Law of Cosines.
* **Arc to Area Project:** Due Thursday, 1.9.25, at the beginning of class.

**THURSDAY (1.9.25)** * **Turn in your *Arc to Area Project* at the beginning of this class.**

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| **NEW OBJECTIVES** (Fundamental Identities, Section 5.1, Pages 396 – 405) |
|  Learn about the Reciprocal Identities, the Quotient Identities, the Pythagorean Identities, the Cofunction Identities, and the Odd-Even Identities. |
|  Simplify Trigonometric Expressions. |
|  Solve Trigonometric Equations. |
|  Prove Trigonometric Identities. |

* **Entry Work:** Page 403, ***Quick Review***, #1 – 12.
* **Class Work/Homework:**
1. Read, take notes, and be ready to discuss the Reciprocal, Quotient, and Pythagorean Identities, as well as Example 1, on pages 397 – 399.
2. Page 403, ***Exercises***, #1, 3.

**FRIDAY (1.10.25) A-Day, No Class** |