|  |
| --- |
| **OBJECTIVES \_\_\_Chapter 5: Section 5.6, The Law of Cosines (Pages 435 – 440).** |
| * **Know that an oblique triangle** is a triangle that does **not** contain a right angle. |
| * Understand **The Triangle Inequality Theorem:** The sum of the lengths of any two sides of a triangle must be greater than the third side. |
| * Use the **Law of Cosines** to solve a right triangle **or** an oblique triangle when given SAS or SSS. |
| cosine law ... |
| * Be able to find the areas of both right and oblique triangles. |
| * Use Area = 0.5(base)(height) for right triangles and oblique triangles when you know the base and the height. |
| * Use The Law of Sines Area Formula for oblique triangles when you know 2 sides and an included angle (SAS). |
| * Use Hero’s (Heron’s) Formula when you know all 3 sides (SSS). |
| * Use the **Law of Sines** when you know AAS, ASA, and SSA (the Ambiguous Case.. |
| * Law of Sines | |

**MONDAY (3.31.25)**

**Do you have any questions about the work assigned previously?**

* Pages 440 and 441, ***Exercises***, #5, 7, 17, 21. Also, ***Exercises***, #2, 4, 6, 8, 10, 18, 22, 23. Round to the nearest tenth.

**Review for a Quiz** (The Law of Cosines, Hero’s Law, The Law of Sines Area Formula) to be taken on Thursday. You may use one page of notes.

**WEDNESDAY (4.2.25)**

**Discuss the Law of Sines.** See pages 427-431.

**Class Work:** Page 432, #2, 10, 16.

**Quiz (The Law of Cosines, Hero’s Law, The Law of Sines Area Formula).** You may use one page of notes.

**Class Work/Homework:** Page 432, #1, 3, 11, 13.

**FRIDAY (4.4.25)**

**Discuss the work assigned previously:** Page 432, #1, 3, 11, 13.

**Class Work/Homework:** Pages 432, 433, #37, 39, 43, 44.

**SATURDAY (4.5.25)\_\_\_\_\_\_\_\_ E-LEARNING**

**E-Learning work: Illustrate each of these problems and show your work. Round to the nearest tenth. Pages 441 and 442, #29, 30, 35, 38.**