

Today's Plan:

Learning Target (standard): I will use the Law of Sines and Cosines to solve triangles. I will find the area of oblique triangles.

Students will: Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work and take a test over oblique triangles .

Teacher will: Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback and test problems.

Assessment: Board work, homework check and test

Differentiation: Students will work at the board, go over and correct homework at their seats and actively engage in test problems.

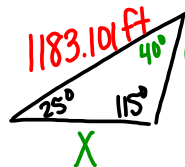
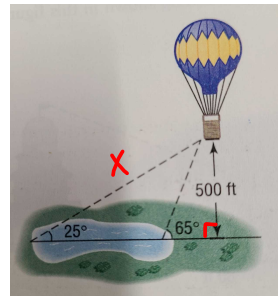
From a stationary hot-air balloon 500 feet above the ground, two sightings of a lake are made. How long is the lake?

$$\sin 25^\circ = \frac{500}{X}$$

$$X \sin 25^\circ = 500$$

$$X = \frac{500}{\sin 25^\circ}$$

$$X = 1183.101 \text{ ft}$$



(AAS)

$$\frac{\sin 115^\circ}{1183.101} = \frac{\sin 40^\circ}{X}$$

$$X \sin 115^\circ = 1183.101 \sin 40^\circ$$

$$X = \frac{1183.101 \sin 40^\circ}{\sin 115^\circ}$$

$$X = 839.100 \text{ ft}$$