

Unit 6 – Solving Oblique Triangles - Classwork

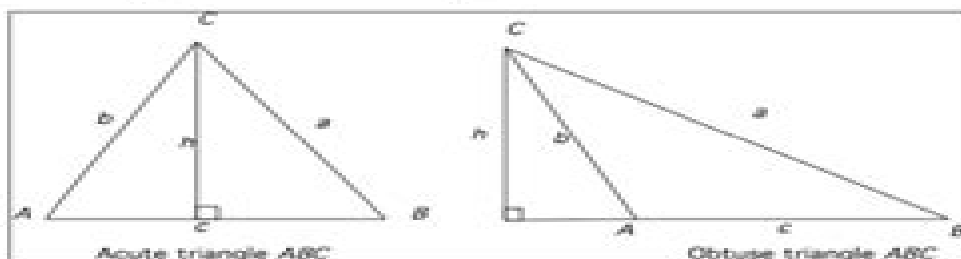
A. The Law of Sines – ASA and AAS

In geometry, we learned to prove congruence of triangles – that is when two triangles are exactly the same. We used several rules to prove congruence: Angle-Side-Angle (ASA), Angle-Angle-Side (AAS), Side-Angle-Side (SAS) and Side-Side-Side (SSS). In trigonometry, we take it a step further. For instance, if we know the values of two angles and a side of a triangle, we can solve that triangle ... that is we can find the other angle and the other sides.

We have learned to solve right triangles in Unit 3. In this section we learn how to solve oblique triangles – triangles that **do not** have a right angle.

First, let's start with a generalization for this section. All triangles will have 6 pieces of information – 3 angles and 3 sides. The angles are labeled A , B , and C and the sides are opposite the angles and are labeled a , b , and c .

Note that right angle trigonometry doesn't help us here. There is no right angle, thus no hypotenuse. We need something else. That something is called the Law of Sines.



In both triangles, we drop a perpendicular h . In both triangles we can then say :

$$\sin A = \frac{h}{b} \quad \text{and} \quad \sin B = \frac{h}{a}$$

So $h = b \sin A$ and $h = a \sin B$

It follows that $a \sin B = b \sin A$

$$\text{and thus } \frac{a}{\sin A} = \frac{b}{\sin B}$$

The Law of Sines

If ABC is a triangle with sides a , b , and c , then $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$

The Law of Sines is really three laws in one: $\frac{a}{\sin A} = \frac{b}{\sin B}$, $\frac{b}{\sin B} = \frac{c}{\sin C}$ and $\frac{a}{\sin A} = \frac{c}{\sin C}$. In each one, there are 4 variables. If you know 3 of them, you can find the 4th.

Example 1) – AAS

$$A = 23^\circ$$

$$B = 48^\circ$$

$$C = 109^\circ$$

$$a = 14$$

$$b = 26.63$$

$$c = 33.88$$

Example 2) - ASA

$$A = 72.4^\circ$$

$$B = 68.9^\circ$$

$$C = 38.7^\circ$$

$$a = 3.88 \text{ in}$$

$$b = 3.8 \text{ in}$$

$$c = 2.55 \text{ in}$$

Most work is done on the calculator. Your job is to show what formulas you are using. To check a problem, verify that the largest angle is opposite the largest side and the smallest angle is opposite the smallest side.

Unit 6 Oblique

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