

## Today's Learning Goal(s):

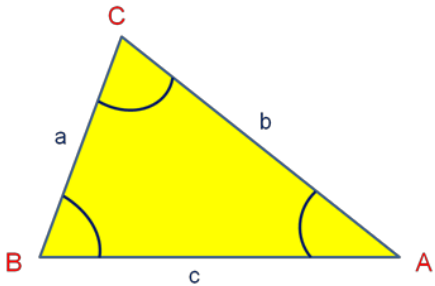
By the end of the class, I will be able to:

- Correctly write the sine **LAW** in one of the two forms.
- Use the sine law to solve a non-right triangle.

MCF 3MI 5.3 Applying the Sine LAW in Acute Triangles

Date: \_\_\_\_\_

The Sine **Law** can be used with any triangle, even if it is not a right triangle. Given any triangle,



$$\textcircled{1} \quad \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

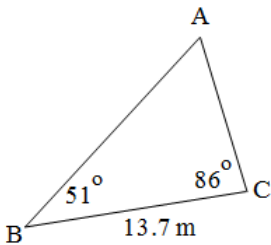
and

$$\textcircled{2} \quad \frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

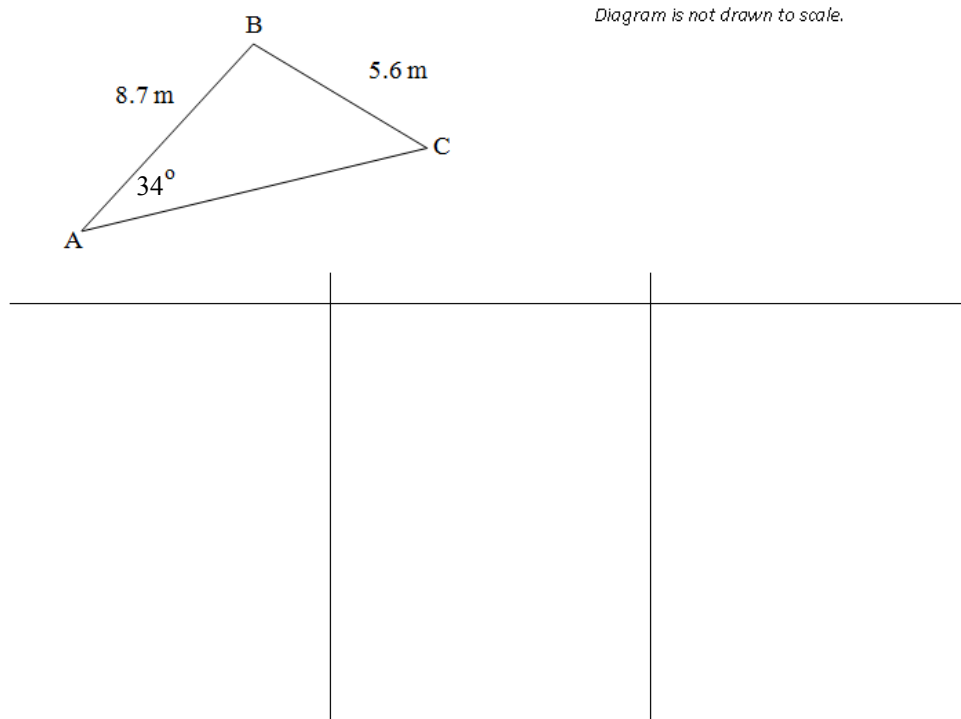
If you are trying to determine an unknown side, then use the formula given in ①.

If you are trying to determine an unknown angle, then use the formula given in ②.

Ex. 1: **Solve** the triangle. (Round side lengths and angles to one decimal place.)

[illegible]

Ex. 2: **Solve** the triangle. (Round side lengths and angles to one decimal place.)



**Today's Homework:** pp. 289-290 # 6 – 11 **AND READ** p. 291 **AND** pp. 292-293 # 1 – 11