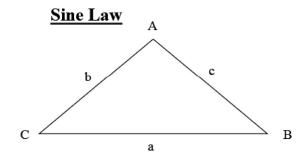
Pre-Calculus 11 Sine Law

To solve an oblique triangle (a triangle which is not a right triangle), we use either Sine Law or Cosine Law.

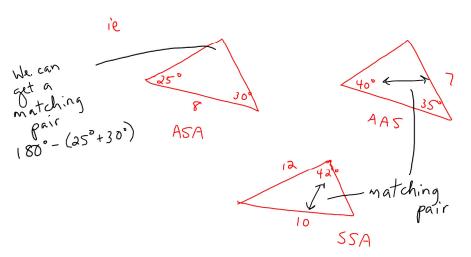


For any $\triangle ABC$,

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

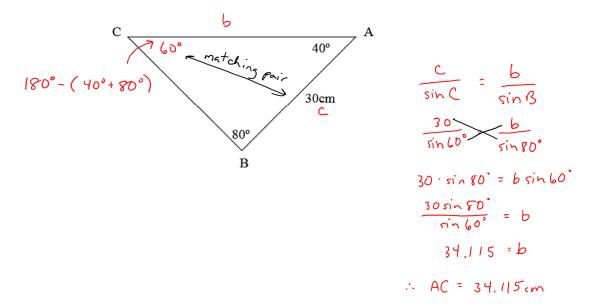
The Sine Law is used in either of the two possible cases:

- 1. Two angles and any side (AAS or ASA)
- 2. Two sides and an angle opposite one of them (SSA)

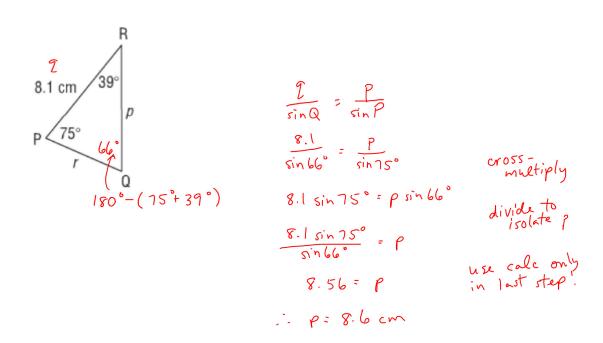


Examples of AAS or ASA

1. In ΔABC find AC



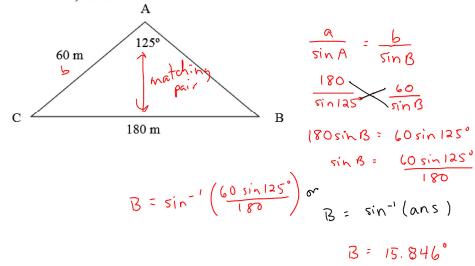
2. In $\triangle PQR$, determine the length of QR to the nearest tenth of a centimetre.



Sine Law.notebook

Examples of SSA (Angle is opposite one of the sides)





2. In \triangle GHJ, determine the measure of \angle G to nearest degree.

O Find
$$\angle J$$
 first not enough into to find $\angle G$ not enough into to find $\angle G$ $\frac{8.6}{\sin 4.6} = \frac{6.1}{\sin 4.5}$

8.6 cm

8.6 c