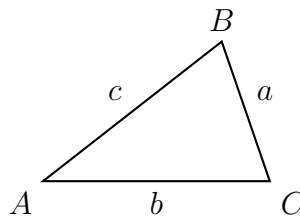


IC25: Laws of Sines and Cosines

1. Use the Law of Sines to find the side c .

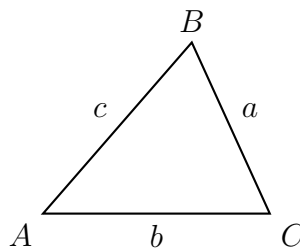
Given: $\angle A = 38^\circ$, $\angle B = 72^\circ$, $a = 13$



$c =$ _____

2. Use the Law of Sines to find the angle $\angle B$.

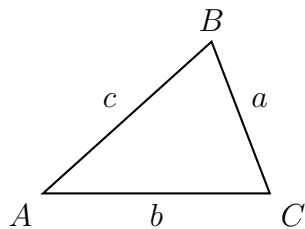
Given: $a = 21$, $b = 19$, $\angle A = 49^\circ$



$\angle B =$ _____

Explain why there is only one possibility for $\angle B$ in the above triangle.

3. Solve triangle ABC given: $\angle A = 42^\circ$, $\angle B = 61^\circ$, $c = 30$



$$\angle C = \underline{\hspace{2cm}}$$

$$a = \underline{\hspace{2cm}}$$

$$b = \underline{\hspace{2cm}}$$

4. Solve triangle ABC given: $a = 15$, $c = 22$, $\angle A = 38^\circ$. If two triangles exist, find both.

