$\qquad$
U2:L4 The Ambiguous Case
Because two sides and an angle opposite one of the sides is known, there are either...

- two possible situations
- one solution
- no solutions

Suppose $\triangle A B C$ where $<A=39^{\circ}, a=14 \mathrm{~cm}$ and $b=10 \mathrm{~cm}$.


Here are the rules for your possibilities...



$$
\begin{aligned}
& \sin B=\frac{1928}{24} \\
& B \approx 53^{\circ}
\end{aligned}
$$



$$
\begin{aligned}
& 180^{\circ}-53^{\circ}=B_{1} \\
& 127^{\circ}=B_{1}
\end{aligned}
$$

