

Sine Rule

Finding an unknown Angle

Example 1. Find the size of $\angle BAC$, given that $AC = 13\text{cm}$, $\angle ABC = 16^\circ$, and $BC = 18\text{cm}$

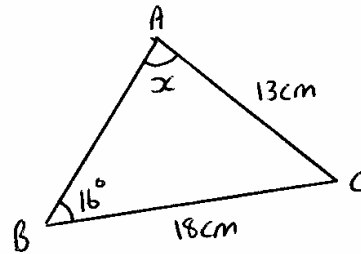
$$\frac{\sin A}{a} = \frac{\sin B}{b}$$

$$\frac{\sin x}{18} = \frac{\sin 16^\circ}{13}$$

$$\sin x = \frac{\sin 16^\circ}{13} \times 18$$

$$\sin x = 0.3817$$

$$x = 22.4^\circ$$



← Leave it in the calculator to keep your accuracy