

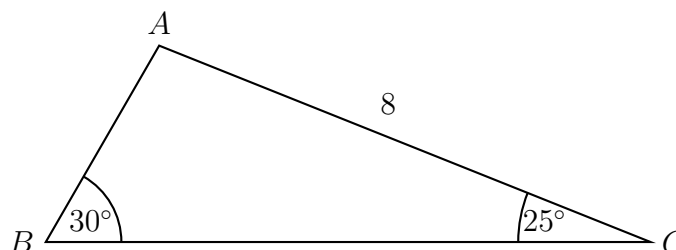
6.3 The Law of Sines

HSG.SRT.D.8

1. The following diagram shows triangle ABC , with $\hat{A}BC = 60^\circ$, $\hat{A}CB = 25^\circ$, and $AC = 8$ cm.

Find AB .

diagram not to scale

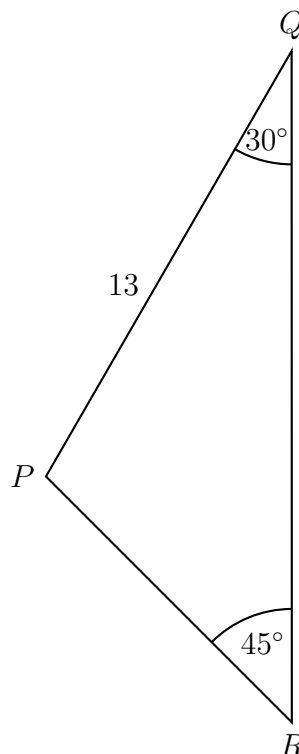


2. The following diagram shows triangle PQR .

$\hat{Q}RP = 45^\circ$, $\hat{P}QR = 30^\circ$, and $PQ = 13$ cm.

Find PR .

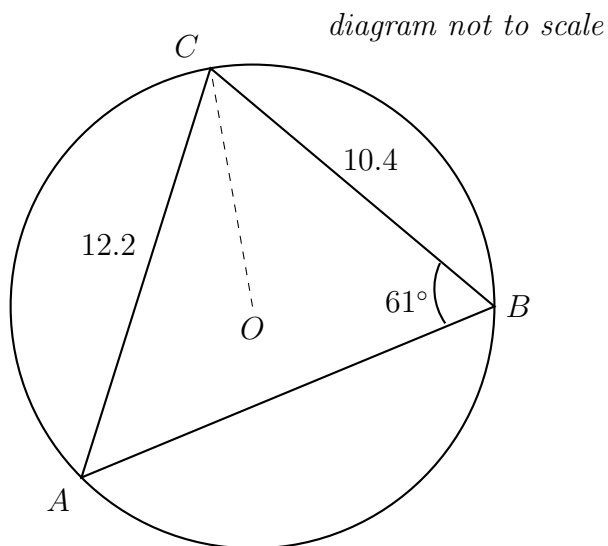
diagram not to scale



3. Consider a circle with centre O and radius 7 cm. Triangle ABC is drawn such that its vertices are on the circumference of the circle.

$AC = 12.2$ cm, $BC = 10.4$ cm, and $\hat{ABC} = 61^\circ$.

Find \hat{BAC} .



4. The following diagram shows triangle ABC , with $\hat{ABC} = 48^\circ$, $\hat{ACB} = 37^\circ$, and $BC = 11.5$ cm.

Find AB .

diagram not to scale

