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**THE SINE LAW WORD PROBLEMS**

**EXAMPLE 1**

A chandelier is suspended from the ceiling by two chains. One chain is 46 cm long and forms a 60° angle with the ceiling. The other chain is 64 cm long. What angle does the longer chain make with the ceiling?

We are solving for  $\angle B$

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$
$$\frac{64}{\sin 60^\circ} = \frac{46}{\sin B} = \frac{c}{\sin C}$$
$$\frac{64}{\sin 60^\circ} \cdot \sin B = \frac{46}{\sin B} \cdot \sin B$$
$$46 \sin 60^\circ = 0.6224 = \sin B$$
$$\sin^{-1}(0.6224) = B$$
$$38.5^\circ = B$$

The angle between the ceiling and the longer chain is 38.5°

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