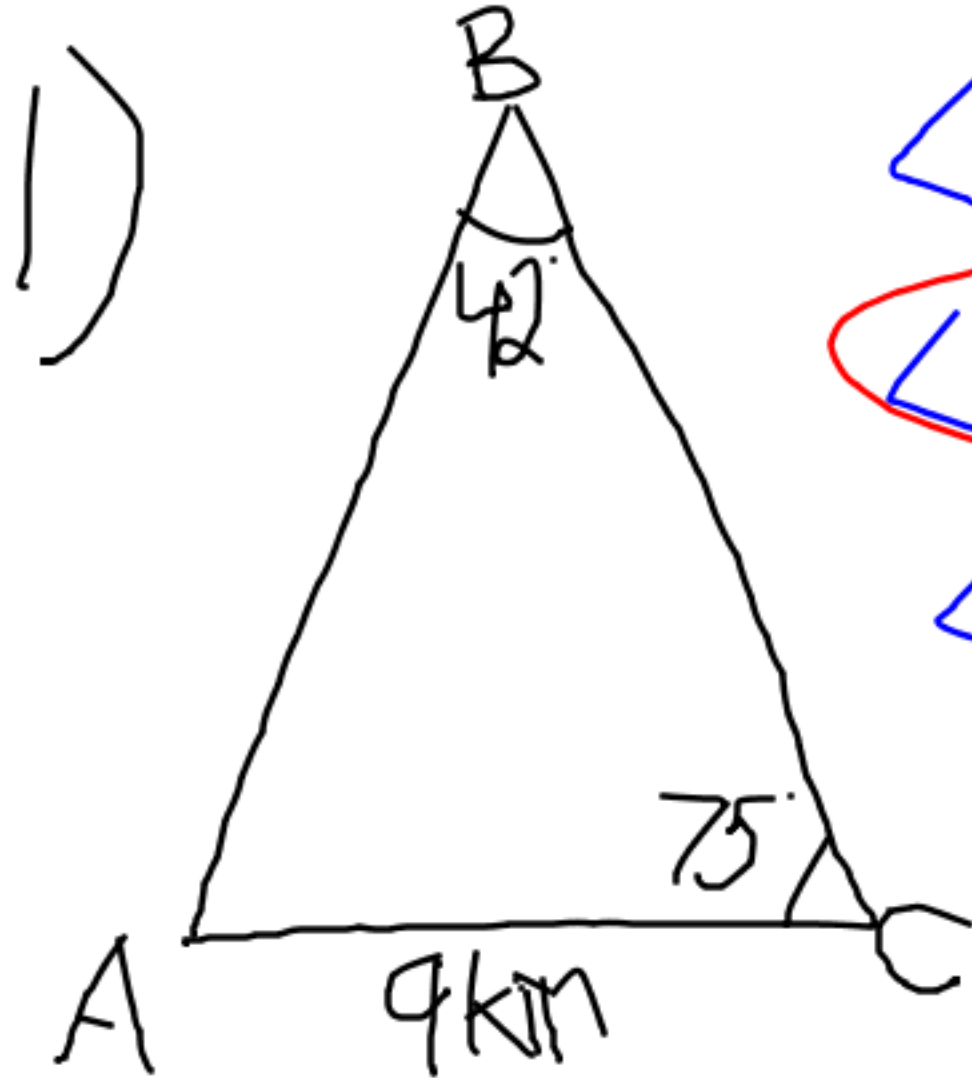




$$\begin{aligned} \angle A &= 63^\circ & a &= \\ \angle B &= 42^\circ & b &= 9 \\ \angle C &= 75^\circ & c &= 13 \end{aligned}$$

Sept 23

$$= 180 - 42 - 75$$

$$\angle A = 63^\circ$$

$$\frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\sin B \left(\frac{a}{\sin 42} \right) = \left(\frac{c}{\sin 75} \right) \sin B$$

$$13 \text{ km} = c$$

$$\angle A = 88 \quad a = 41 \text{ yd} \quad 180 - 49 - 88$$

$$\angle B = 43 \quad b = 28 \text{ yd} \quad \angle B = 43^\circ$$

$$\angle C = 49 \quad c = 31 \text{ yd}$$

$$\frac{\sin A}{a} = \frac{\sin C}{c}$$

$$31 \left(\frac{\sin 88}{41} \right) = \left(\frac{\sin C}{31} \right) 31$$

$$0.7556 = \sin C$$

$$49^\circ = \angle C$$

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

$$\sin 43^\circ \left(\frac{41}{\sin 88} \right) = \left(\frac{b}{\sin 43} \right) \sin 43^\circ$$

$$28 = b$$

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

$$\sin 63 \left(\frac{a}{\sin 42} \right) = \left(\frac{a}{\sin 63} \right) \sin 63$$

$$12 \text{ km} = a$$