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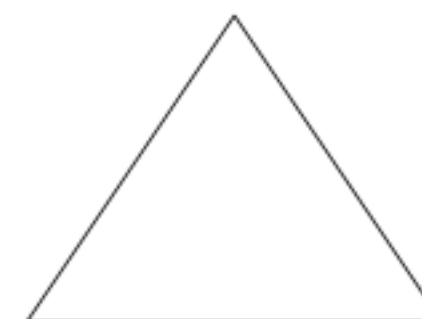
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Sine Law

When do you use sine law?

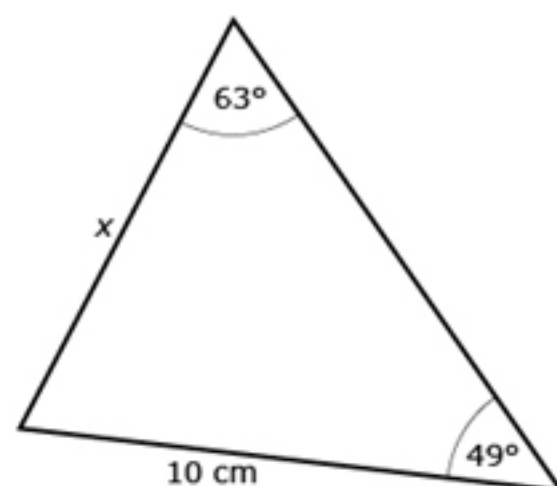
You need a corresponding pair to use sine law



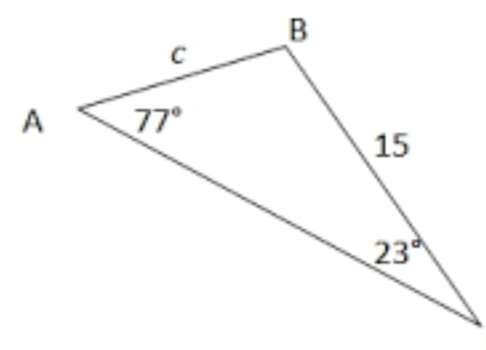
$$\frac{\text{side } a}{\sin A} = \frac{\text{side } b}{\sin B} = \frac{\text{side } c}{\sin C} \quad \text{OR} \quad \frac{\text{angle } A}{a} = \frac{\text{angle } B}{b} = \frac{\text{angle } C}{c}$$

Solve for x (side)

Solve for c (side)



1. For $\triangle ABC$ find c to the nearest hundredth.



Times New Ro 16

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Caption

Normal

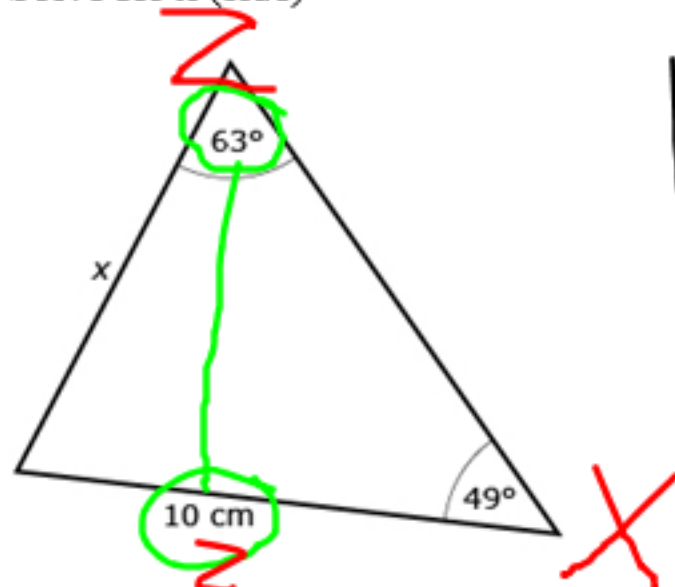
No Spac...

Heading 1

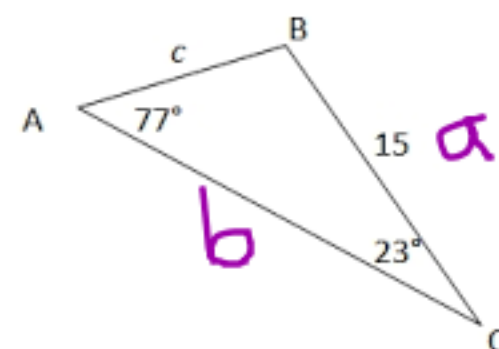
Title

Styles

Solve for x (side)



Solve for c (side)

1. For $\triangle ABC$ find c to the nearest hundredth.

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

$$\frac{15}{\sin 77} = \frac{c}{\sin 23}$$

$$5.86 = \frac{(\sin 77)(c)}{\sin 23}$$

$$6.02 = c$$

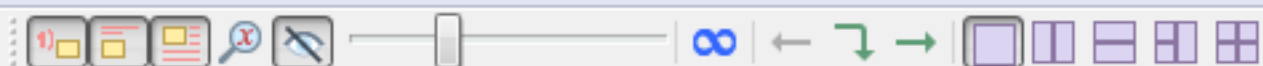
$$\frac{10}{\sin 63} = \frac{x}{\sin 49}$$

$$\frac{10}{\sin 63} = \frac{x}{\sin 49}$$

$$7.547 = \frac{(\sin 63)(x)}{\sin 49}$$

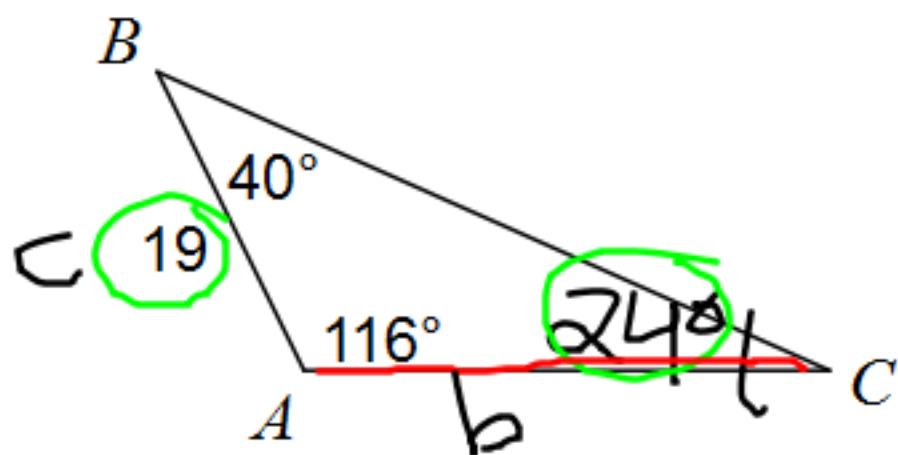
$$8.54 = x$$

Homework : "Non Right Angle - Snel's Law"
#1, 2, 7, ~~8~~, 9, 10, 15, ~~16~~



Find each measurement indicated. Round your answers to the nearest tenth.

1) Find AC



$$\angle C = 180 - 40 - 116$$

$$\angle C = 24^\circ$$

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