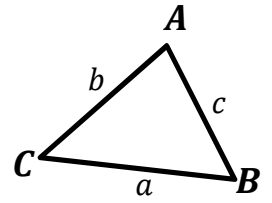


## Trigonometry – The Law of Sines

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C} \quad \text{or} \quad \frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

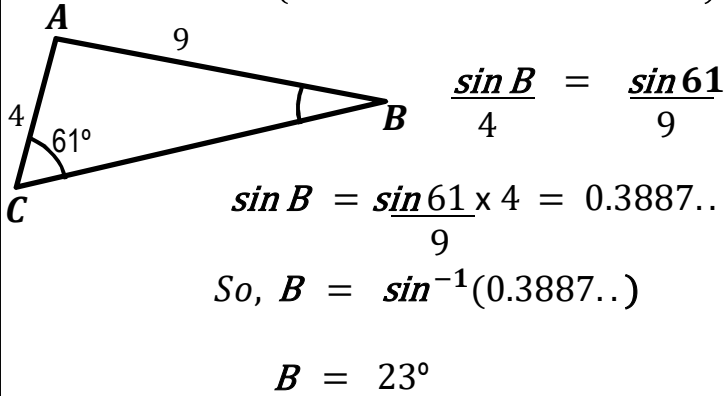


The law of sines can be used in **any** triangle.

You use it to:

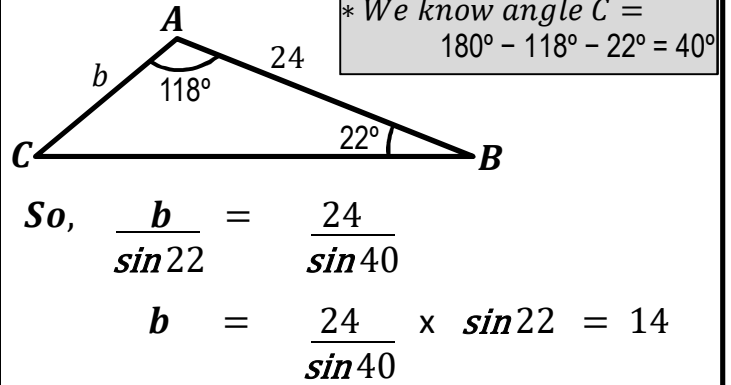
Find a missing angle when you have 2 sides and 1 opposite angle.

**Example:** Find angle B  
(to the nearest whole number).



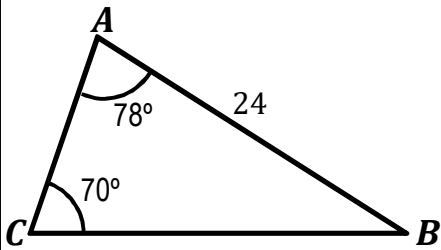
Find a missing side when you have 2 angles and 1 opposite side.

**Example:** Find b (to the nearest whole number).



Use this rule to solve the following problems (to the nearest whole number) and match to an answer in the middle.

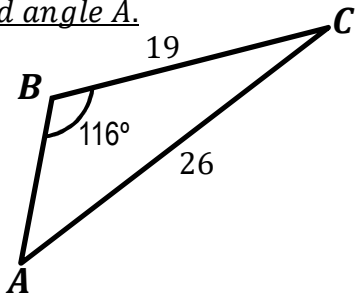
Find a.



41°

25

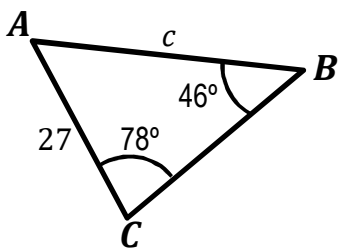
Find angle A.



37

69°

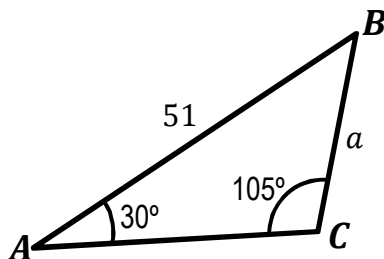
Find c.



74°

48°

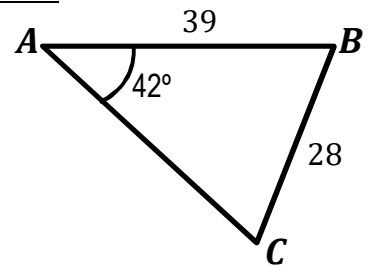
Find a.



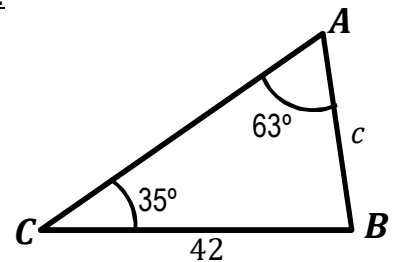
26

27

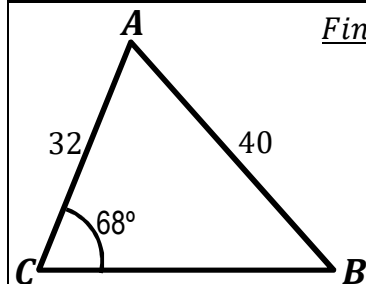
Find angle C.



Find c.



Find angle B.



Find angle C.

