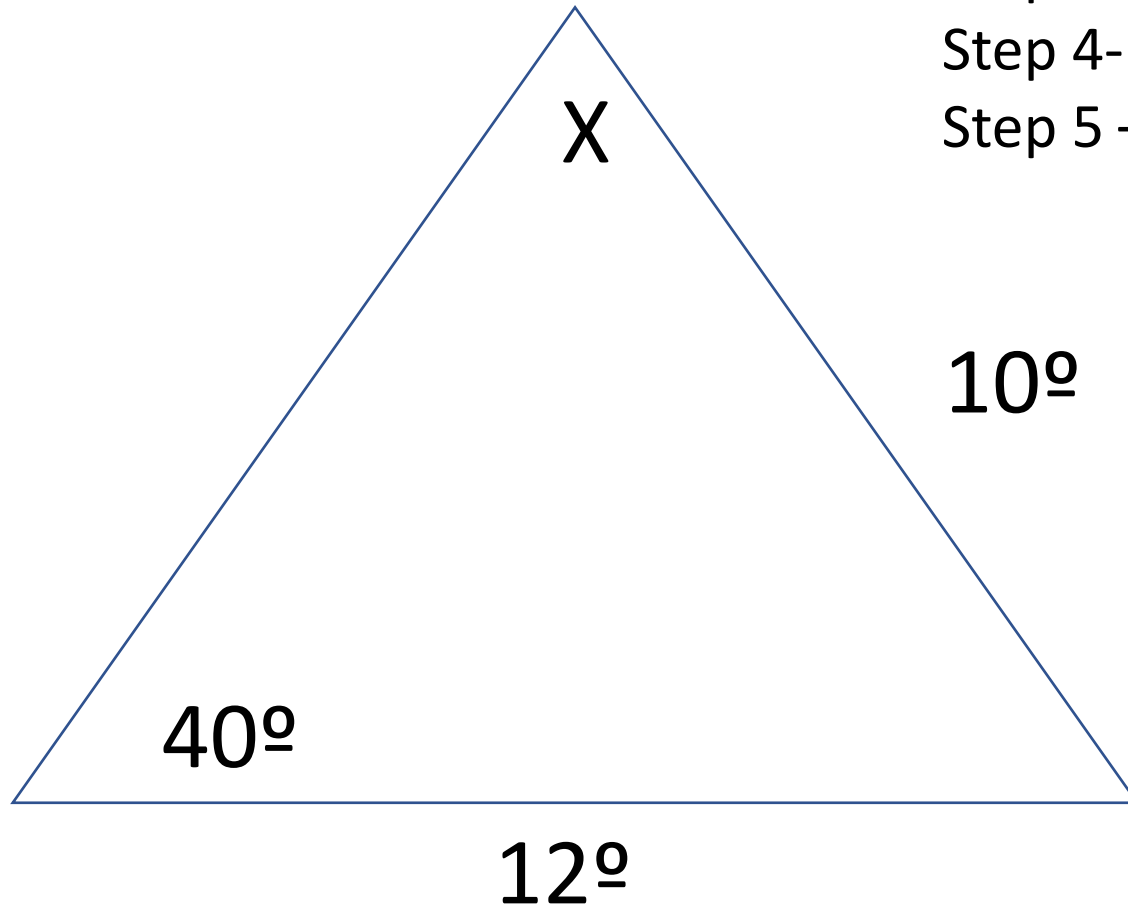


Law of Sines

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



Law of Sines



Step 1 – Label sides and angles

Step 2- choose what part of the formula to use

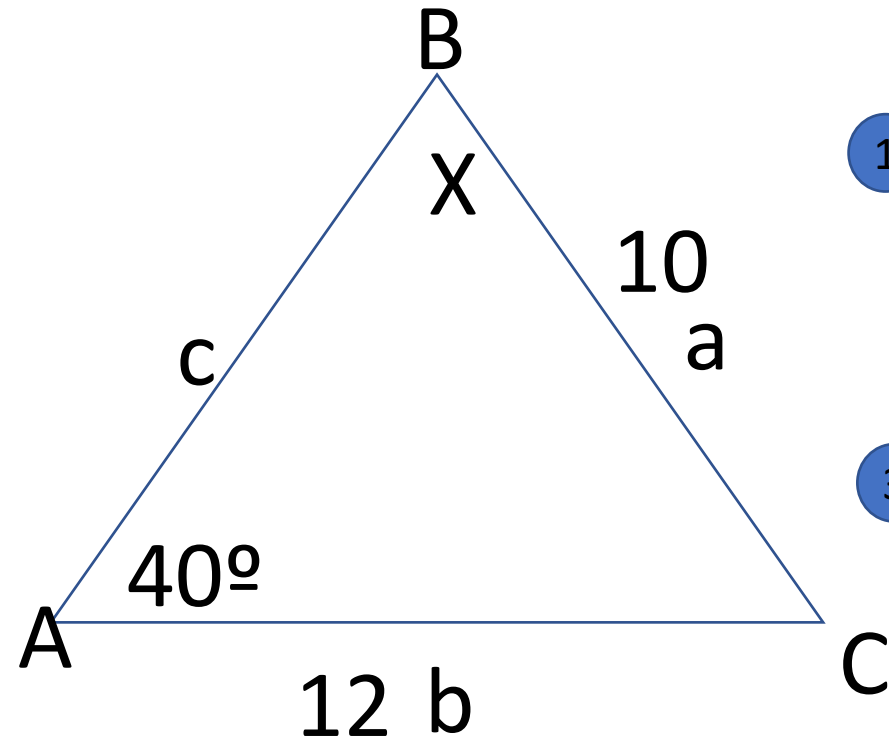
Step 3- plug in the numbers you know

Step 4- cross multiply

Step 5 – to isolate X multiply by Sin^{-1}



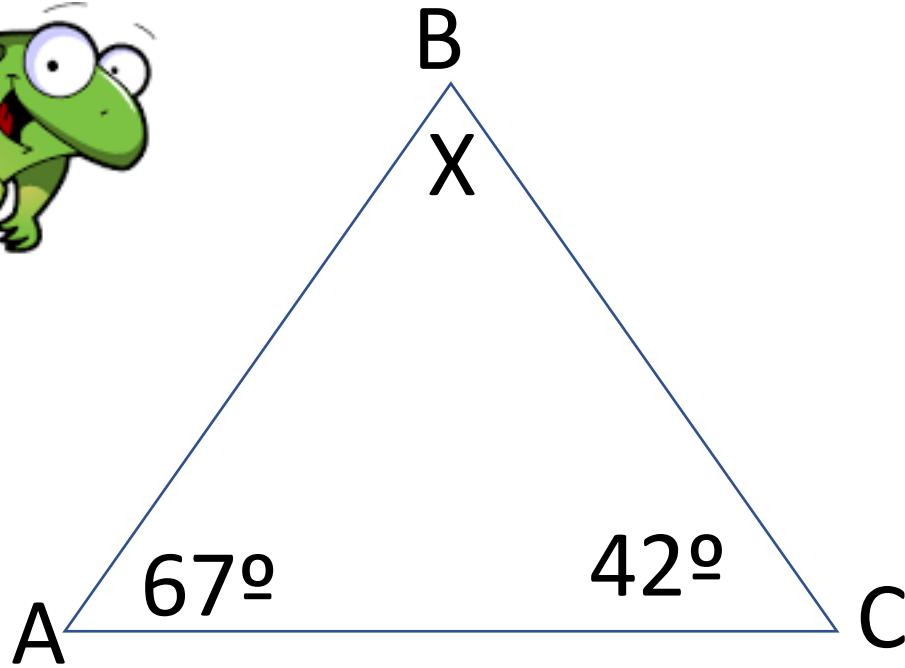
Law of Sines



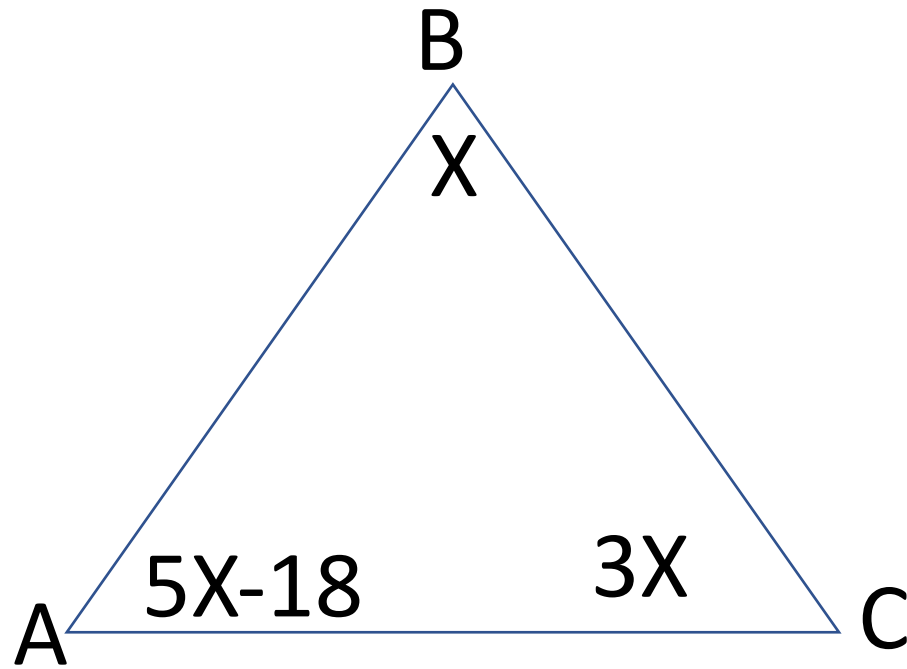
$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

- 1 $\frac{\sin 40}{10} = \frac{\sin X}{12} = \frac{\sin C}{c}$
- 2 $12 \sin 40 = 10 \sin X$
- 3 $\frac{12 \sin 40}{10} = \frac{10 \sin X}{10}$
- 4 $1.2 \sin 40 = \sin X$
- 5 $1.2 \sin 40 = \sin X$
- 6 $.77 = \sin X$
 $.77 \sin^{-1} =$
- 7 $.77 = \sin X$ $X = 50.47^\circ$

Homework – Find the missing angle



Homework - Find the 3 missing angles



Homework – Find the missing angle

