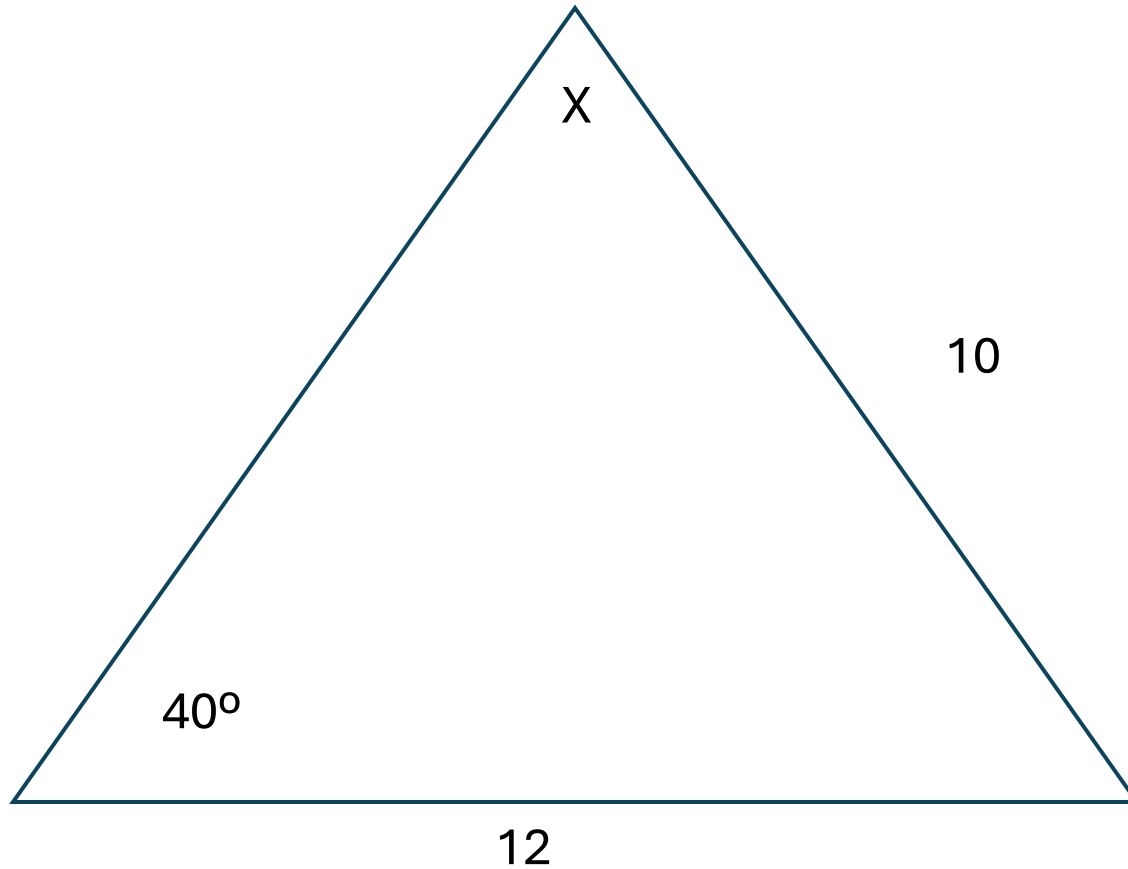


Law of Sines

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

Law of Sines



Step 1 – Label sides and angles

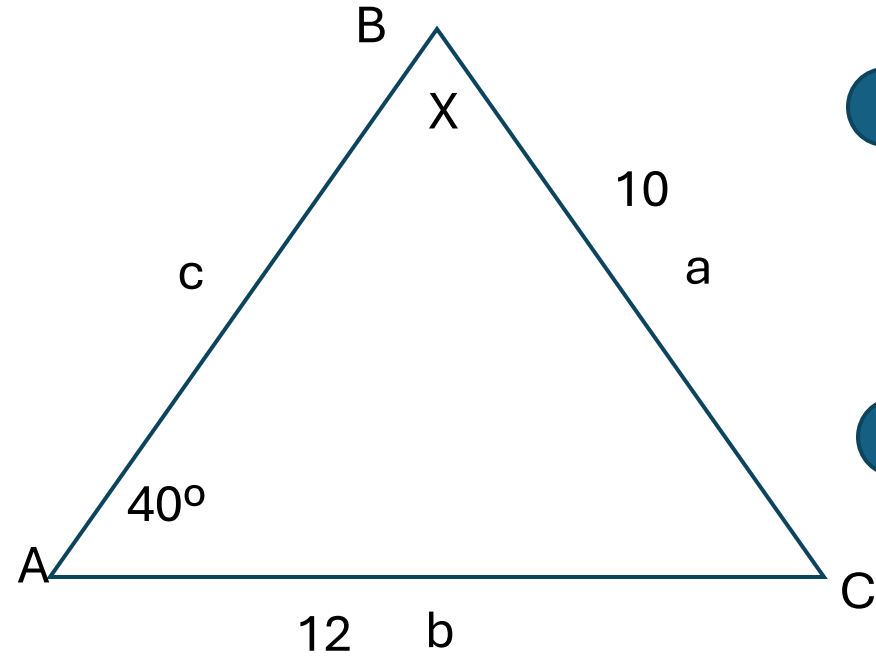
Step 2- choose what part of the formula to use

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 $1.2 \sin 40 = \sin X$
 $.77 = \sin X$

6 $.77 = \sin X$
 $.77 \sin^{-1} = X$

7 $X = 50.35$