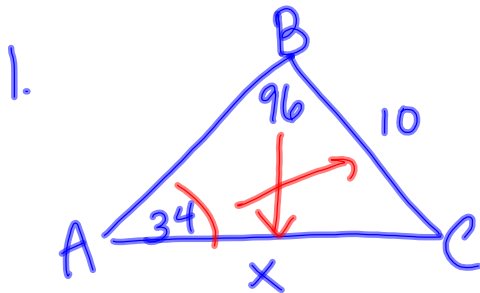


Sine Law

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

examples



$$\frac{\sin 34}{10} = \frac{\sin 96}{x}$$

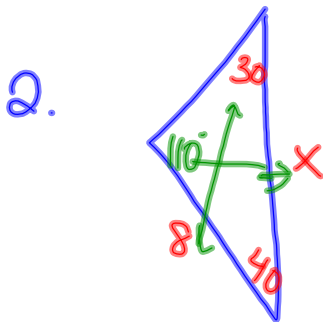
Cross multiply

$$x \sin 34 = 10 \sin 96$$

$$0.5592x = 9.94$$

$$\frac{0.5592x}{0.5592} = \frac{9.94}{0.5592}$$

$$x = 17.8$$



$$\frac{\sin 30}{8} = \frac{\sin 110}{x}$$

$$x \sin 30 = 8 \sin 110$$

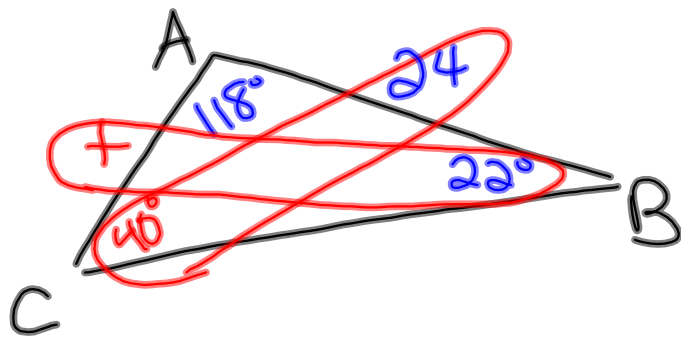
$$0.5x = 7.5175$$

$$\frac{0.5x}{0.5} = \frac{7.5175}{0.5}$$

$$x = 15$$

Sheet

1) Find AC



$$\frac{\sin 40^\circ}{24} = \frac{\sin 22^\circ}{x}$$

$$x \sin 40^\circ = 24 \sin 22^\circ$$

$$0.6428x = 8.99$$

$$x = \frac{8.99}{0.6428} = 14$$

2) 8 3) 17

4) 29 5) 33 6) 54°