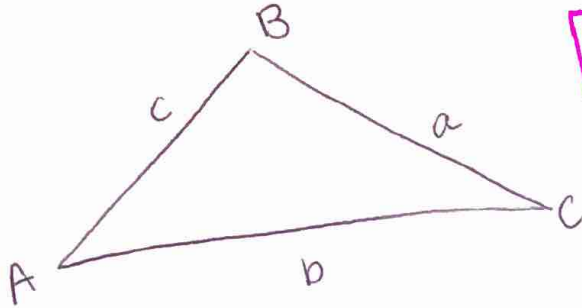


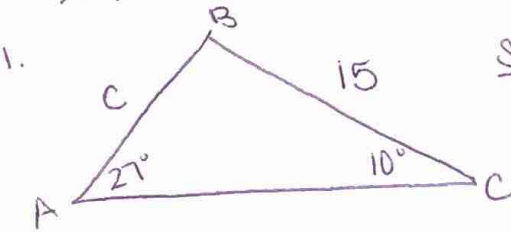
Law of Sines

- Works for non-right As
- Works with



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

examples



$$\frac{\sin 27}{15} = \frac{\sin 10}{c}$$

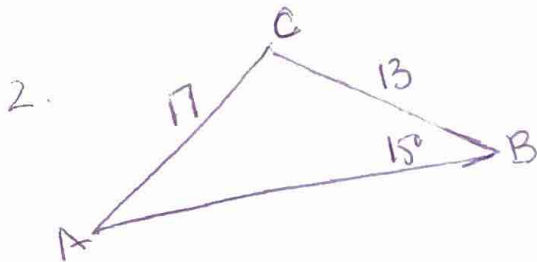
cross multiply

$$c \cdot \frac{\sin 27}{15} = 15 \cdot \frac{\sin 10}{\sin 27}$$

$$c = \frac{15 \cdot \sin 10}{\sin 27}$$

solve for c

$$c = 5.3$$



$$\frac{\sin 15}{17} = \frac{\sin A}{13}$$

$$13 \cdot \sin 15 = 17 \cdot \sin A$$

$$0.198 = \sin A$$

$$\sin^{-1}(0.198) = A$$

$$11.4^\circ = A$$