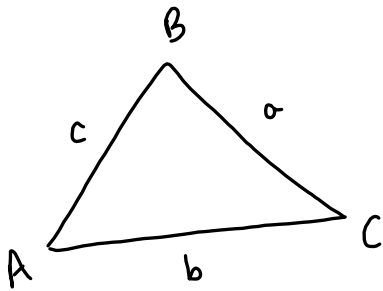
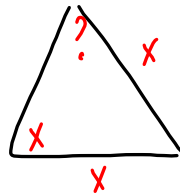
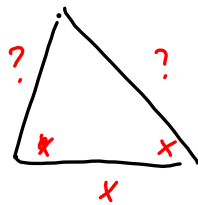


Law of Sines

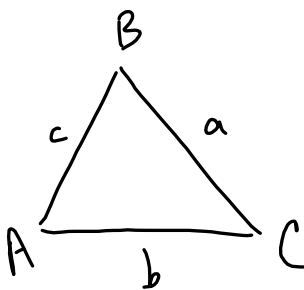


$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

↑ need to have a "matching" side and angle
 a and A
 or b and B
 or c and C

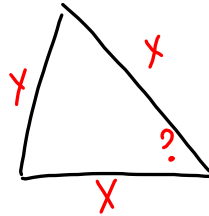
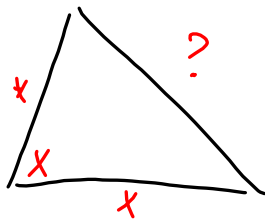


Law of Cosines



$$c^2 = a^2 + b^2 - 2ab \cos C$$

* make sure that C is the angle you know or the one you are trying to find.



$$c^2 = a^2 + b^2 - 2ab \cos C$$

$$2ab \cos C = a^2 + b^2 - c^2$$

$$\cos C = \frac{a^2 + b^2 - c^2}{2ab}$$