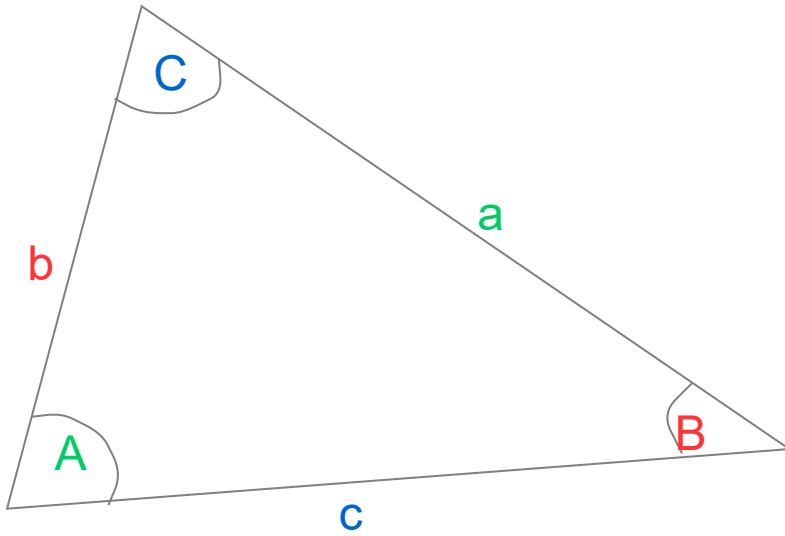


Trigonometric rules

The following rules work for any triangle, where the sides and angles are labeled as below:



Sine Rule

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

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

Cosine Rule

$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$\frac{b^2 + c^2 - a^2}{2bc} = \cos A$$

Area of any triangle

$$A_{rea} = \frac{1}{2}ab \sin C$$