

Sine rule

The *sine rule* states that if a , b and c are the lengths of the sides of a triangle, and A , B and C are the angles in the triangle; with A opposite a , etc., then

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

This ratio is also equal to $2R$, where R is the radius of the [circumcircle](#) of ABC . Some regard this further equality as part of the sine rule.

Another name sometimes used for the sine rule is *the law of sines*.

