## 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*.

