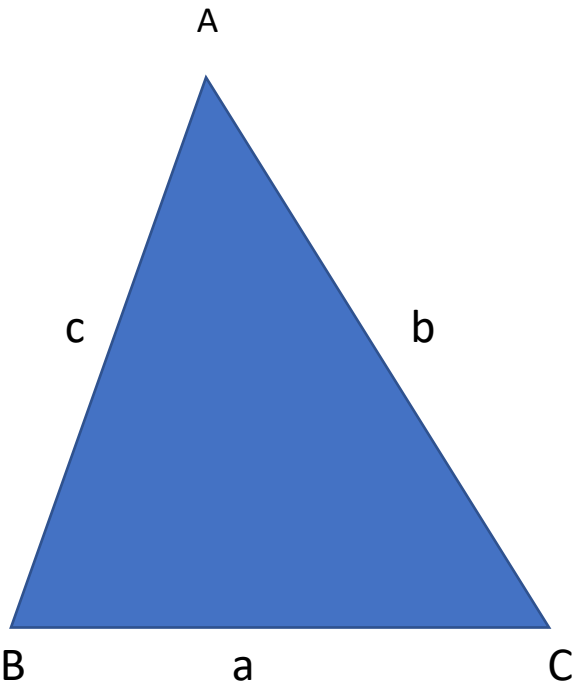
Law of Sines

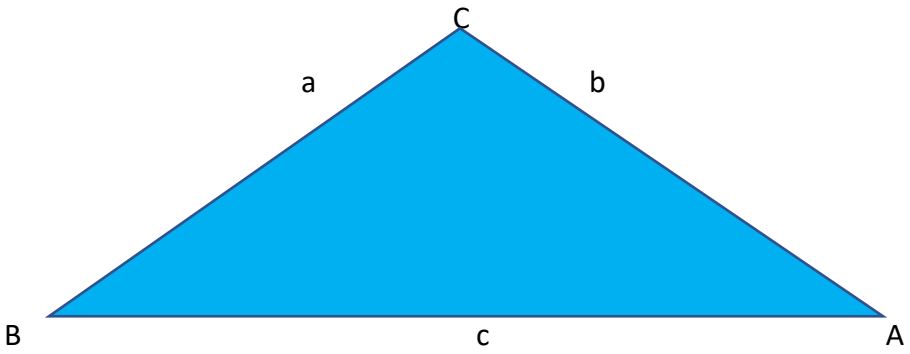


$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

Law of Cosines

For this (or any given triangle), the Law of Cosines says:

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



This law is helpful if you need to find the angles of the triangle but know all of the lengths of the sides or if you want to solve for the third side of a triangle is you know the lengths of the other two sides and the angle between those two sides.