Pythagorean Theorem
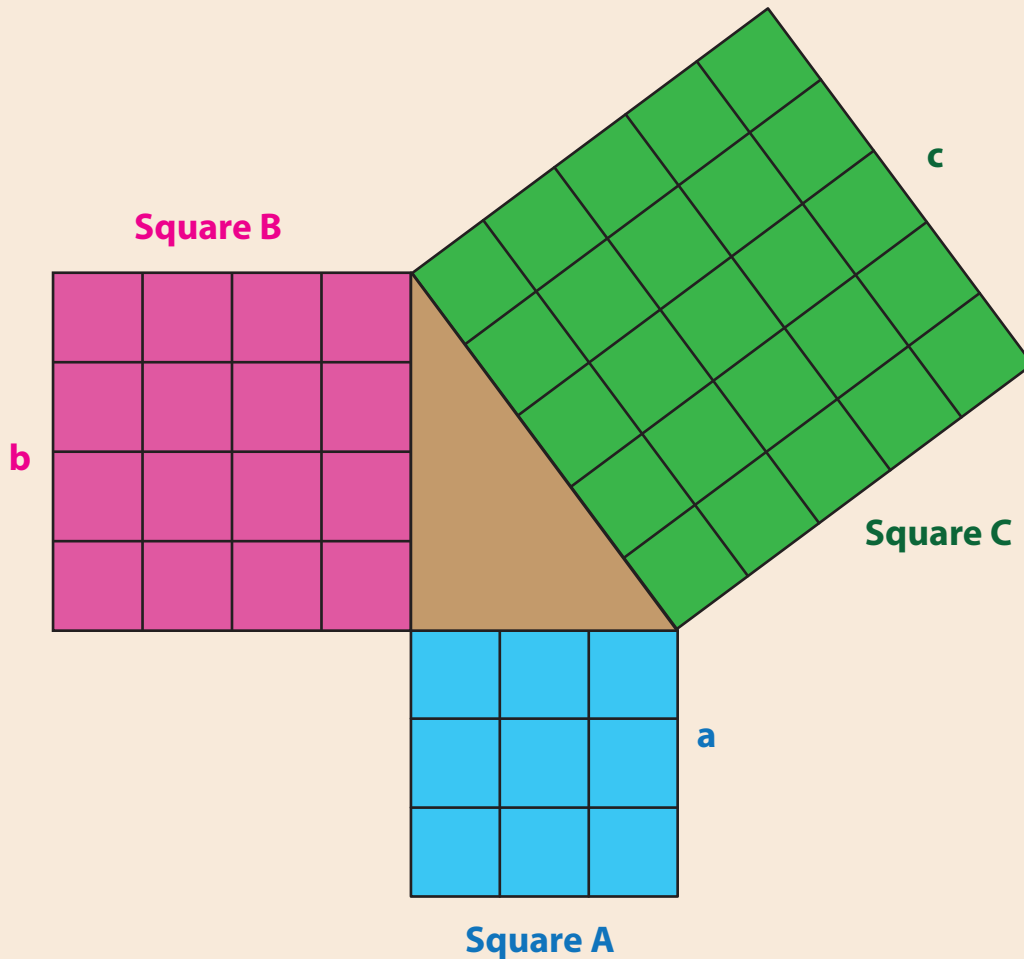
The Pythagorean theorem states that the sum of the squares of the legs of a right triangle equals the square of the length of the hypotenuse.

Square B

b

Square C

c

a

Square A

Area of Square A = a × a = a²

Area of Square B = b × b = b²

Area of Square C = c × c = c²

Therefore the side lengths a, b, and c can be written as an equation called 'Pythagorean Theorem'.

$$a^2 + b^2 = c^2$$