PYTHAGOREAN THEOREM

square of the longer leg

A

C

leg b

hypotenuse c

leg a

square of the shorter leg

B

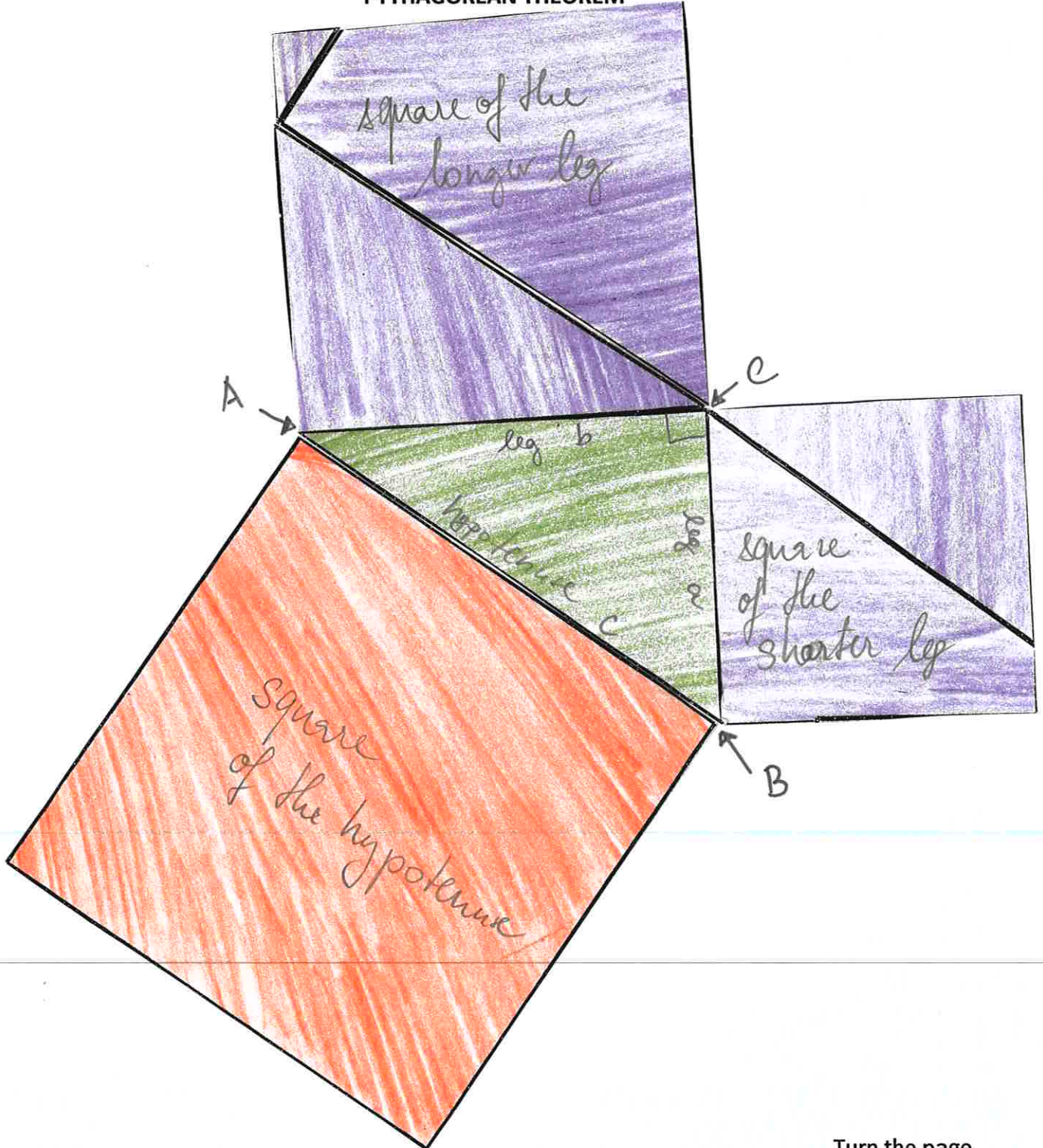square of the hypotenuse

1. **Write three equations that can be used to express the Pythagorean Theorem for triangle ACB:**

$$a^2 = c^2 - b^2$$

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

$$b^2 = c^2 - a^2$$

2. **Write down the Pythagorean Theorem using words not equations.**

The Pythagorean Theorem states that in every right-angled triangle the following is true:

The area of a square drawn above the hypotenuse is equal to the <u>sum</u> of the areas of the two squares drawn above the legs of the triangle.