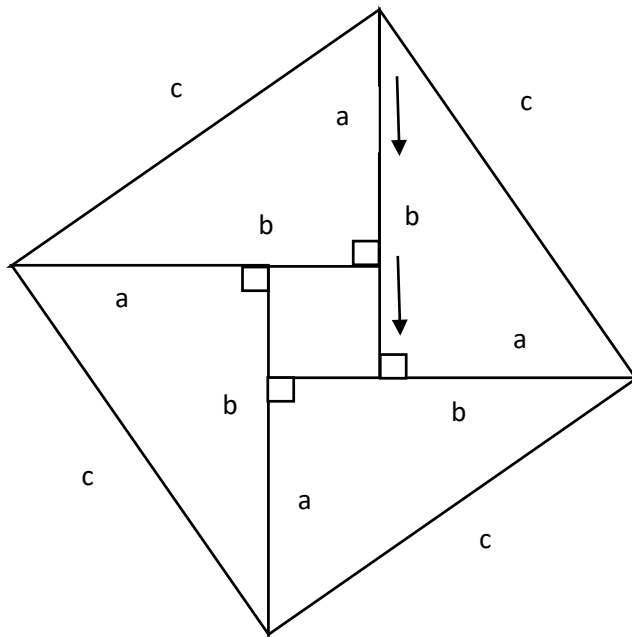


Pythagorean Theorem

The area of triangle $\frac{1}{2} ab$

The area of the square $(b - a)^2$



$$(b - a)^2 + 4 \cdot \frac{1}{2} ab = c^2$$

$$\Rightarrow b^2 - 2ab + a^2 + 2ab = c^2$$

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