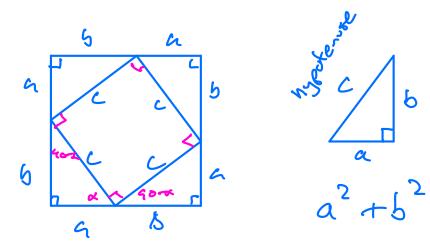
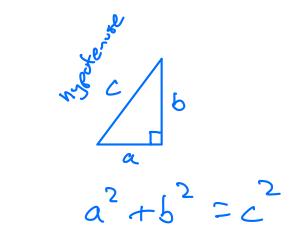
Pythagoras Theorem





Asec of large square
$$= (a+b)(a+b)$$

$$= a^{2} + ab + ab + b^{2}$$

$$= a^{2} + b^{2} + 2ab$$

Area is equal to
$$4 \Delta s + \text{small square}$$

$$= 4\left(\frac{1}{2}ab\right) + C^{2}$$

$$= 2ab + c^{2}$$

Shape can have only one area $a^2 + b^2 + 2ab = c^2 + 2ab$ $a^2 + b^2 = c^2$