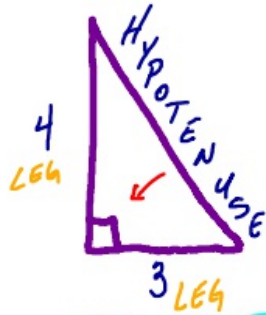


Pythagorean Theorem

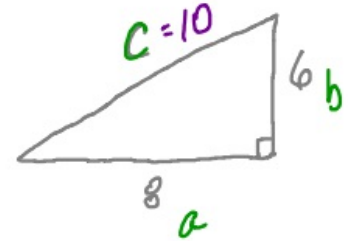


$$a^2 + b^2 = c^2$$

$$a^2 = a \cdot a$$

$$a^2 \neq a + a$$

$$\begin{aligned} 4^2 + 3^2 &= \text{HYPOTENUSE}^2 \\ 16 + 9 &= c^2 \\ 25 &= c^2 \\ \sqrt{25} \quad \sqrt{c^2} & \\ 5 &= c \end{aligned}$$



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

$$8^2 + 6^2 = c^2$$

$$64 + 36 = c^2$$

$$100 = c^2$$

$$\sqrt{100} \quad \sqrt{c^2}$$

$$10 = c$$

$$\sqrt{100} = \pm 10$$

$$\sqrt{49} = x$$

$$x^2 = x \cdot x = 49$$

$$x = \pm 7$$