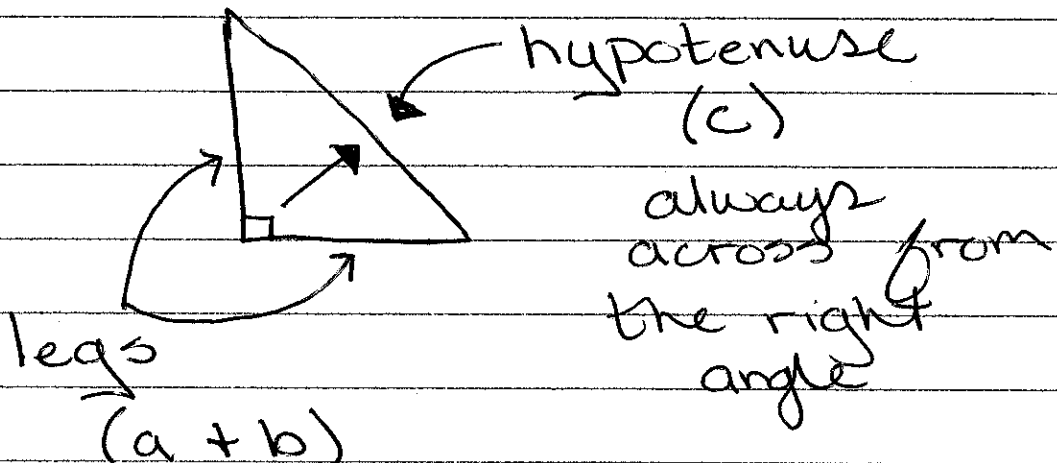


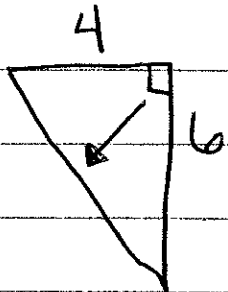
Pythagorean Theorem

* ONLY works with

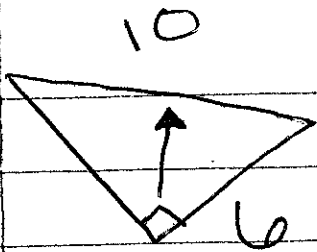
RIGHT TRIANGLES *



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



$$\begin{aligned} a^2 + b^2 &= c^2 \\ 4^2 + 6^2 &= c^2 \\ 16 + 36 &= c^2 \\ \sqrt{52} &= \sqrt{c^2} \\ 7.2 &\approx c \end{aligned}$$



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

$$6^2 + b^2 = 10^2$$

$$\begin{array}{r} 36 + b^2 = 100 \\ -36 \qquad \qquad -36 \\ \hline \end{array}$$

$$\sqrt{b^2} = \sqrt{64}$$

$$b = 8$$