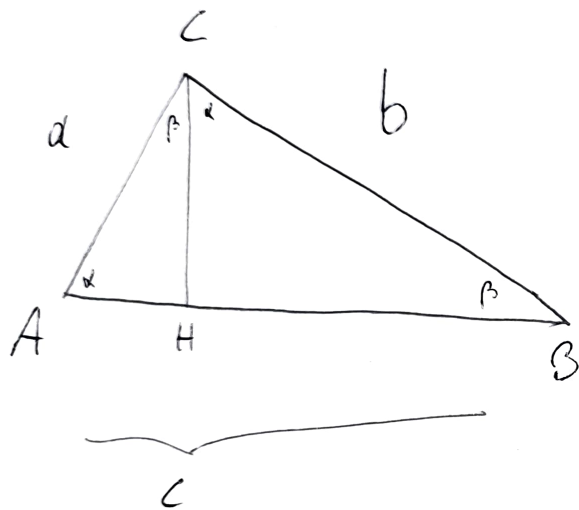




$\triangle ABC \sim \triangle ACH \sim \triangle BCH$

$\Rightarrow$ LATI PROPORZIONALI

$$\frac{AC}{AH} = \frac{AB}{AC} \Rightarrow a^2 = AB \cdot AH$$

$$\frac{AB}{CB} = \frac{CB}{HB} \Rightarrow b^2 = AB \cdot HB$$

$$\Rightarrow a^2 + b^2 = AB \cdot AH + AB \cdot HB = AB [AH + HB] = \overline{AB}^2 = c^2 \quad \text{Q.E.D.}$$