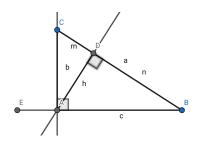
Demonstração do teorema de Pitágoras:

Seja $\triangle ABC$ um triângulo retângulo em A:



$$m(\overline{BC}) = a$$

$$m(\overline{AC}) = b$$

$$m(\overline{AB}) = c$$

$$m(\overline{AD}) = h$$

$$m(\overrightarrow{DB}) = n$$

$$m(\overline{DC}) = m$$

Pelo caso AA, $\triangle ABC \sim \triangle DAC \sim \triangle DBA \Rightarrow$

$$\Rightarrow \frac{a}{c} = \frac{b}{h} = \frac{c}{n} \wedge \frac{a}{b} = \frac{b}{m} = \frac{c}{h} \Rightarrow$$

$$\Rightarrow ah = bc \land an = c^2 \text{ (I) } \land bn = hc \land am = b^2 \text{ (II) } \land bh = cm$$

Somando (I) e (II):
$$a(m+n) = b^2 + c^2 \Rightarrow \boxed{a^2 = b^2 + c^2}$$

Documento compilado em Thursday 13th March, 2025, 20:58, UTC +0.

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