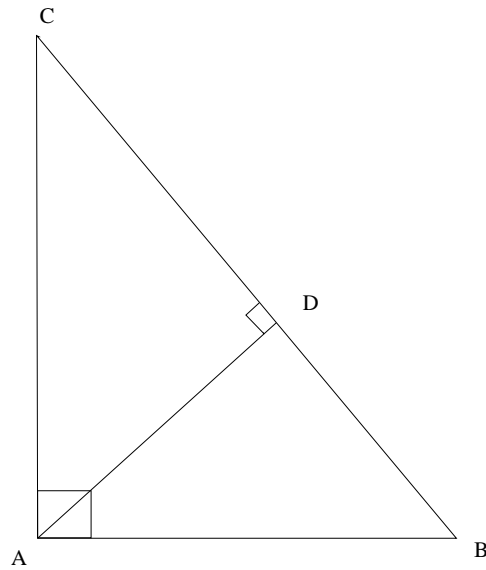


A Pythagorean-like Theorem

Submission deadline: June 30th 2018

Consider the right triangle



Let the length of **AB** be a , the length of **AC** be b and the length of **AD** be h . Prove that

$$\frac{1}{a^2} + \frac{1}{b^2} = \frac{1}{h^2}$$