

Dr Oliver Mathematics

Worked Examples

Right-Angled Triangle 1

1. A right-angled triangle ABC is drawn, as shown in Figure 1.

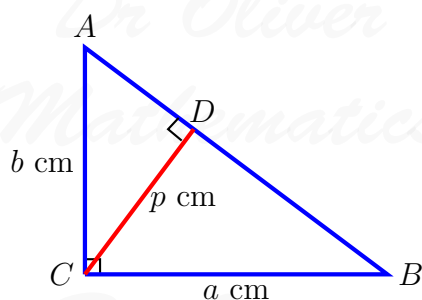


Figure 1: a right-angled triangle ABC

- Let $BC = a$ cm.
- Let $AC = b$ cm.
- Let $\angle ACB = 90^\circ$.
- The line CD is perpendicular to the line AB .

Prove

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