

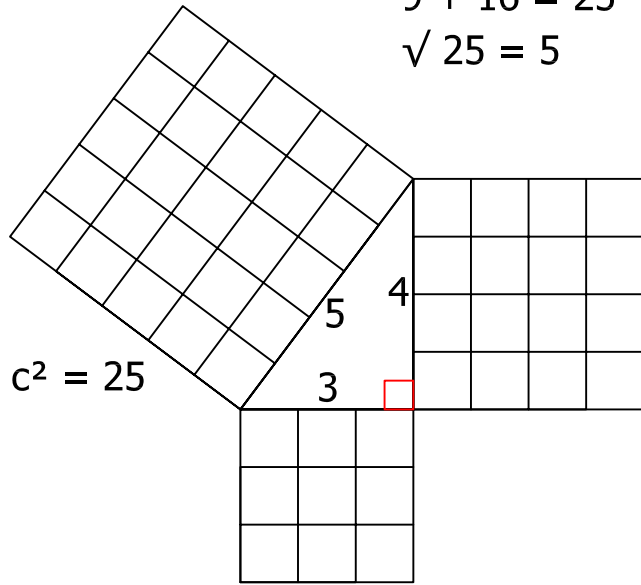
Euclid's Elements Book 1 Prop 47

In right-angled triangles the square on the side opposite the right angle equals the sum of the squares on the sides containing the right angle.

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

$$9 + 16 = 25$$

$$\sqrt{25} = 5$$



$$b^2 = 16$$

$$c^2 = 25$$

$$a^2 = 9$$

- 3:4:5
- 6:8:10
- 12:16:20
- 24:32:40