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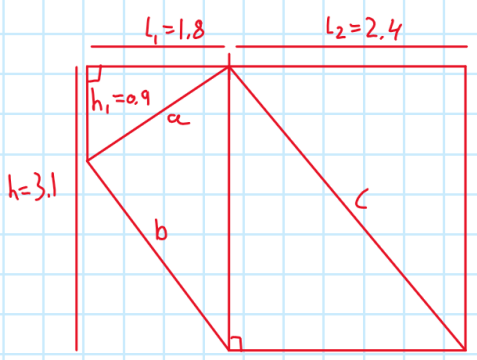


Diagram showing a right-angled triangle with height $h = 3.1$ and base segments $l_1 = 1.8$ and $l_2 = 2.4$. The hypotenuse is c . A smaller right-angled triangle is formed by height $h_1 = 0.9$ and base segment l_1 , with hypotenuse a .

Calculation for c :

$$c = \sqrt{h^2 + l_2^2}$$

$$= \sqrt{3.1^2 + 2.4^2}$$

$$= \sqrt{9.61 + 5.76}$$

$$= \sqrt{15.37}$$

$$= 3.92$$

Calculation for a :

$$a = \sqrt{l_1^2 + h_1^2}$$

$$= \sqrt{1.8^2 + 0.9^2}$$

$$= \sqrt{3.24 + 0.81}$$

$$= \sqrt{4.05}$$

$$= 2.01$$

Calculation for b :

$$b = \sqrt{(h - h_1)^2 + l_1^2}$$

$$= \sqrt{(3.1 - 0.9)^2 + 1.8^2}$$

$$= \sqrt{2.2^2 + 1.8^2}$$

$$= \sqrt{4.84 + 3.24}$$

$$= \sqrt{8.08}$$

$$= 2.77$$
