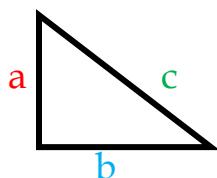


In any right triangle with sides a and b and hypotenuse side c . For example:

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

$$\begin{aligned} a &= 3 \\ b &= 4 \\ c &= ??? \end{aligned}$$



Using the formula: $a^2 + b^2 = c^2$ we can find the answer.

$$3^2 + 4^2 = c^2$$

$$9 + 16 = c^2$$

$$25 = c^2 \quad \sqrt{25} = \sqrt{c^2} \quad \text{so} \quad 5 = c$$

$$b = 7$$

$$a = 4$$

$$b = 9$$

$$a = 2$$

$$b = 5$$

$$a = 6$$

$$\begin{array}{c} a^2 + b^2 = c^2 \\ \downarrow \quad \downarrow \quad \downarrow \\ \underline{\quad} + \underline{\quad} = \underline{\quad} \end{array}$$

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$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$C = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$C = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$C = \underline{\quad}$$