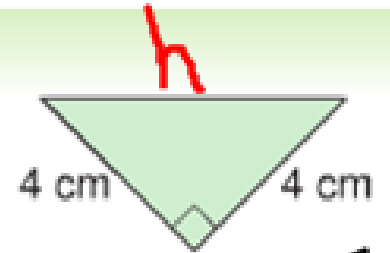


Example 1

Find the length of the hypotenuse.

Give the length to one decimal place.



$$a^2 + b^2 = h^2$$

$$4^2 + 4^2 = h^2$$

$$16 + 16 = h^2$$

$$\sqrt{32} = \sqrt{h^2}$$

$$5.8 = h$$

$$\sqrt{25}$$

5

$$\sqrt{32}$$



$$\sqrt{36}$$

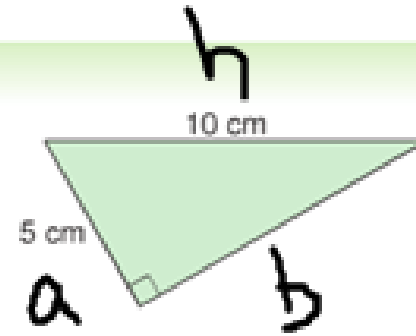
6



5.8

Example 2

Find the unknown length to one decimal place.



$$a^2 + b^2 = h^2$$

$$5^2 + b^2 = 10^2$$

$$25 + b^2 = 100$$

$$\sqrt{b^2} = \sqrt{75}$$

$$b = \sqrt{75}$$

$$\sqrt{64}$$

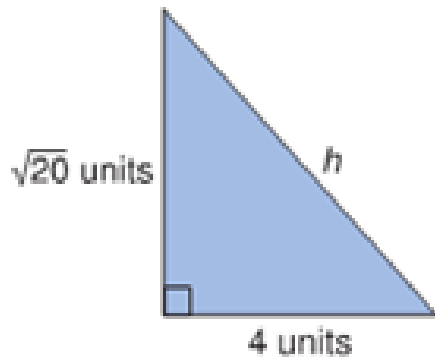
$$\sqrt{75} \rightarrow \sqrt{81}$$

$$b = 8.7 \text{ cm}$$

$$x + 8 = 10$$
$$2$$

Find the length of each side labelled with a variable.

a)



$$a^2 + b^2 = h^2$$

$$\sqrt{20}^2 + 4^2 = h^2$$

$$20 + 16 = h^2$$

$$\sqrt{36} = \sqrt{h^2}$$

$$6 = h$$

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