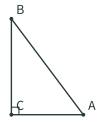
Pythagoras: identify the sides and calculate lengths — Further practice

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Further practice 11

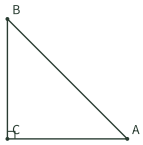
A right triangle has legs 1.5 cm and 2 cm. Find its hypotenuse.



Geometry diagram; not drawn to scale except for construction tasks.

Further practice 12

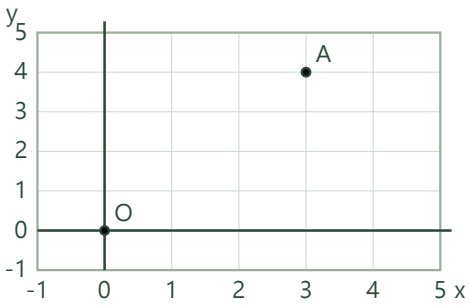
A square has side 5 cm. Find its diagonal exactly.



Geometry diagram; not drawn to scale except for construction tasks.

Further practice 13

Find the distance from $(0, 0)$ to $(3, 4)$ by completing a right triangle.



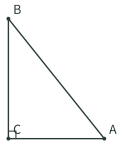
Use the stated conditions and the labelled scales.

Further practice 14

A right triangle has hypotenuse 29 cm and one leg 20 cm. Find the other leg.

Extension 15

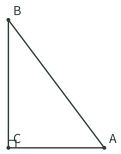
A right triangle has legs 4 cm and 5 cm. Find the exact hypotenuse and explain why 9 cm is impossible.



Geometry diagram; not drawn to scale except for construction tasks.

Extension 16

A right triangle with legs 3 cm and 4 cm is enlarged by scale factor 2. Find its new hypotenuse and explain why it doubles.



Geometry diagram; not drawn to scale except for construction tasks.