

Mathematics

Pythagoras's Theorem

Finding right-angled triangles

Lesson 7 of 8

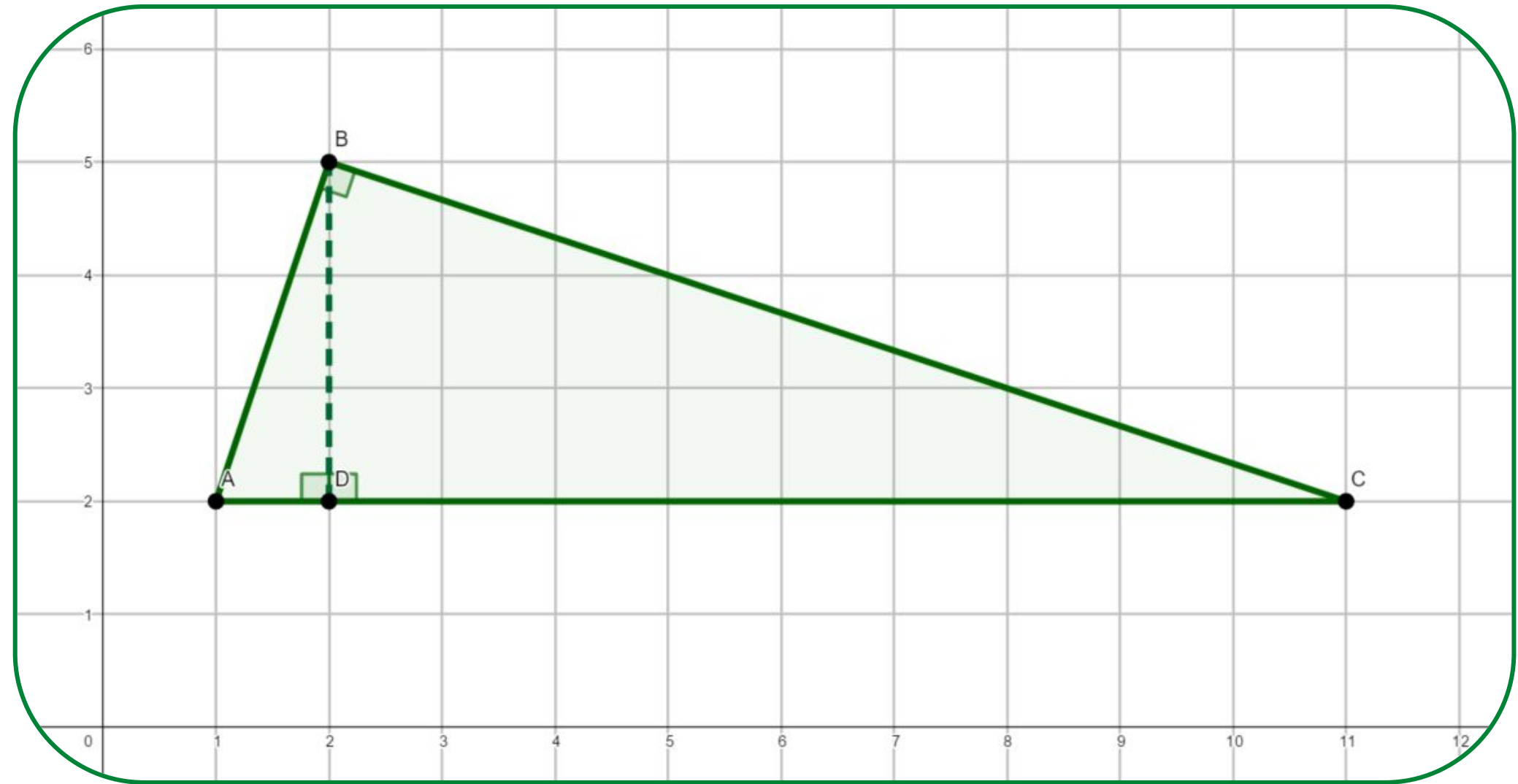
Downloadable Resource

Dr Rim Saada

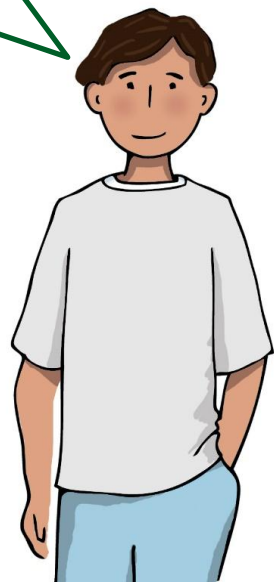


Try this

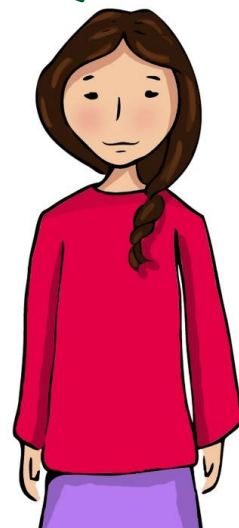
Find out as much information as you can about this diagram. Some examples have been given by the students...



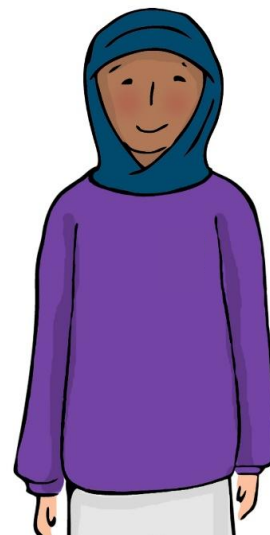
The point C is
(11, 2)



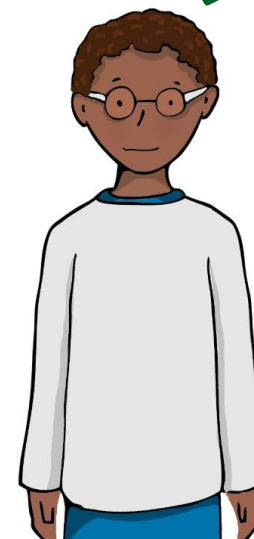
The lengths of the
line BD is 3



ABD is a
right-angle
triangle



AD has a
length of 1

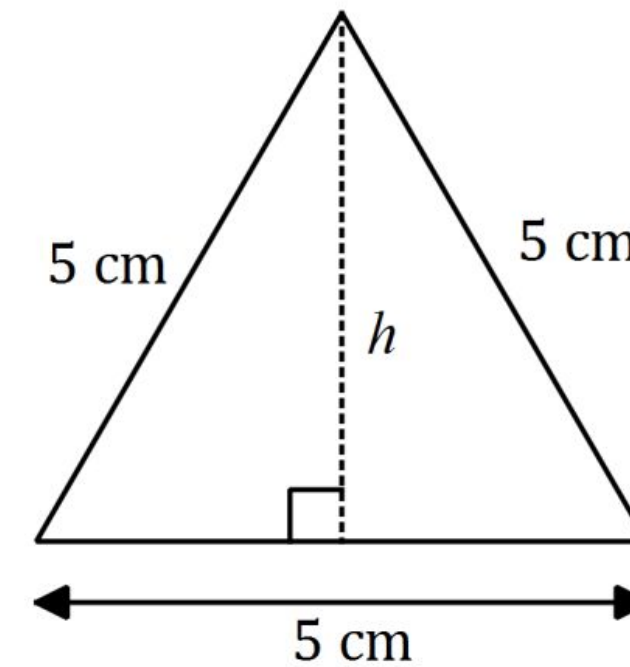


Can you work out
the length of AB?

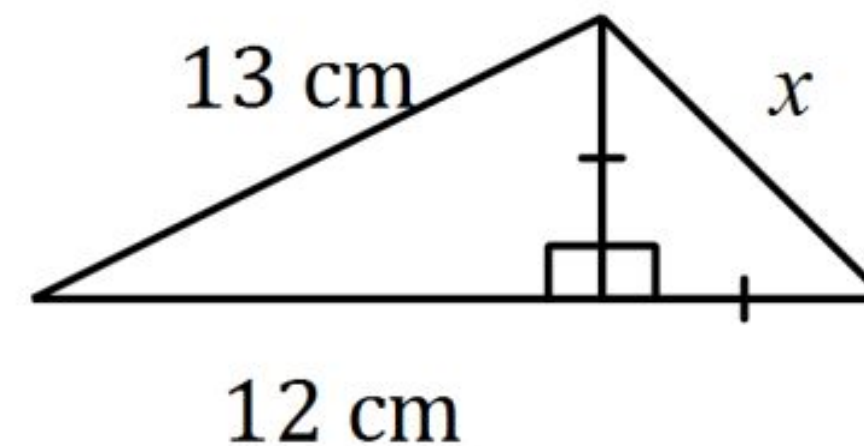


Independent task

- 1) Calculate the perpendicular height of this equilateral triangle, giving your answer correct to one decimal place.



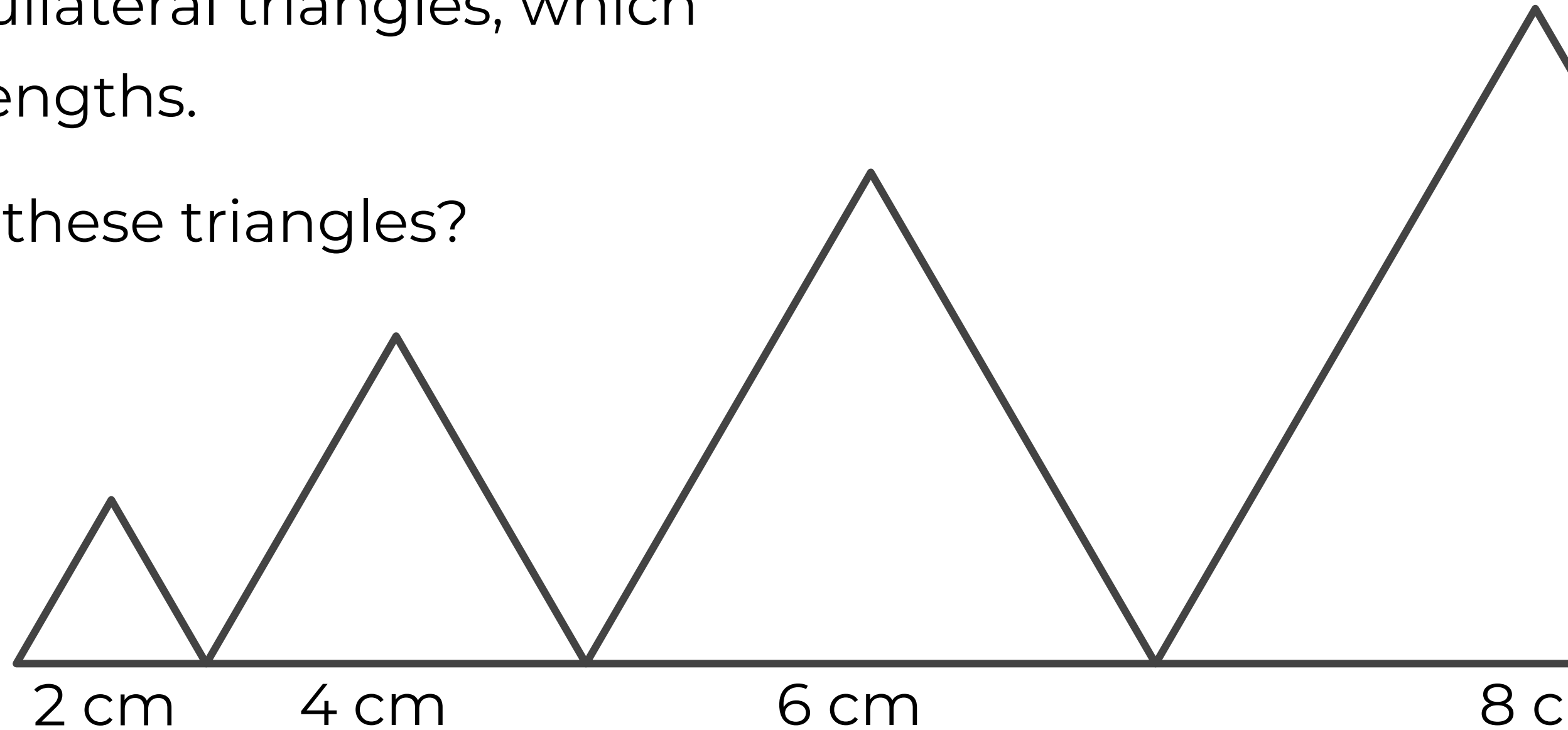
- 2) Calculate the length of the side marked x in each of the following triangles, giving your answer correct to one decimal place.



Explore

This is a sequence of equilateral triangles, which having increasing side lengths.

What are the heights of these triangles?



How would the pattern continue?

