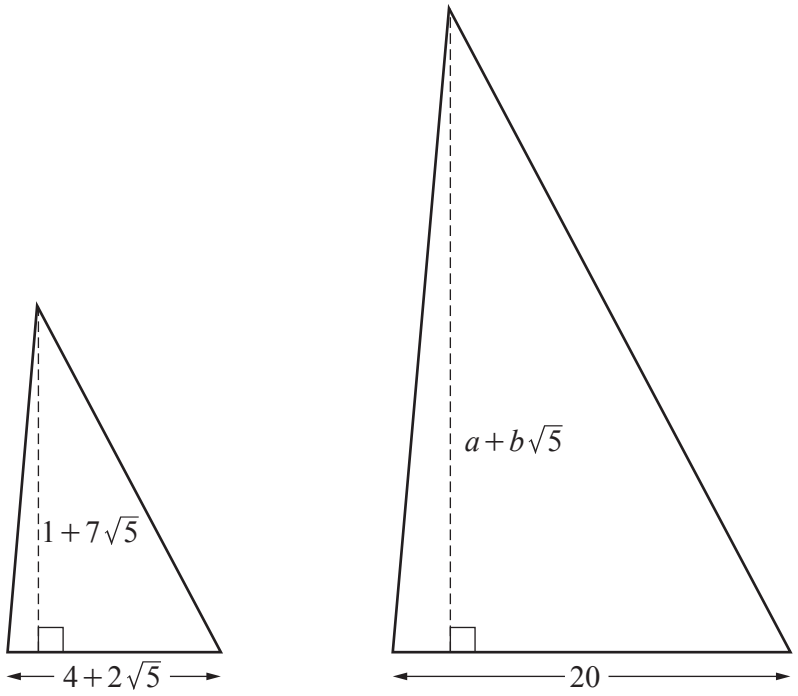
2 DO NOT USE A CALCULATOR IN THIS QUESTION.

In this question all lengths are in centimetres.



The diagram shows two similar triangles.
The height of the smaller triangle is $1+7\sqrt{5}$ and the height of the larger triangle is $a+b\sqrt{5}$, where a and b are integers.

Find the values of a and b. [4]