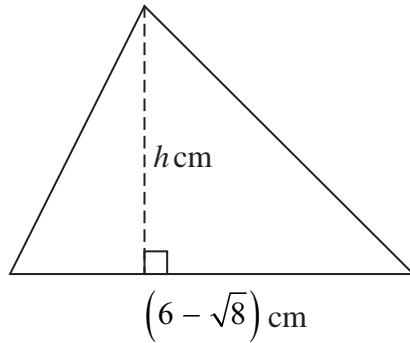


1.



**Diagram not  
to scale**

**Figure 1**

**In this question you must show all stages of your working.  
Solutions relying on calculator technology are not acceptable.**

Figure 1 shows a triangle with

- area  $7 \text{ cm}^2$
- base  $(6 - \sqrt{8})$  cm
- perpendicular height  $h$  cm

Find the exact value of  $h$

Give your answer in the form  $a + b\sqrt{2}$  where  $a$  and  $b$  are constants.