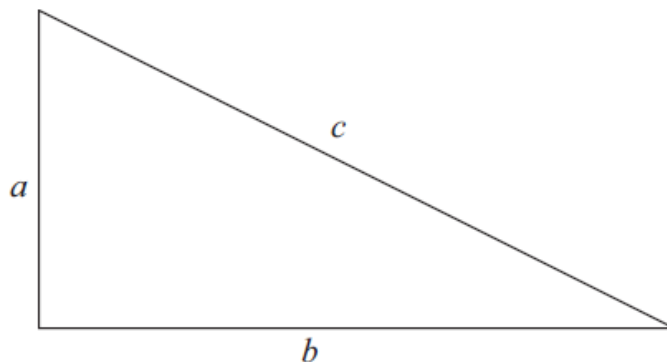


**AQA – Proof – A2 Mathematics P3**

1. June/2019/Paper\_3/No.6

The three sides of a right-angled triangle have lengths  $a$ ,  $b$  and  $c$ , where  $a, b, c \in \mathbb{Z}$ 

(a) State an example where  $a$ ,  $b$  and  $c$  are all even.

[1 mark]

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(b) Prove that it is not possible for all of  $a$ ,  $b$  and  $c$  to be odd.

[3 marks]

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