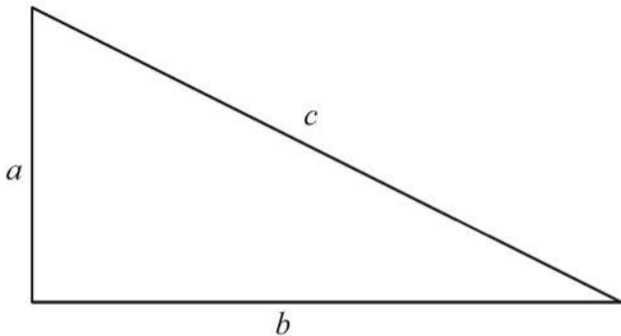


6 The three sides of a right-angled triangle have lengths a , b and c , where $a, b, c \in \mathbb{Z}$



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

[1 mark]

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

[3 marks]