

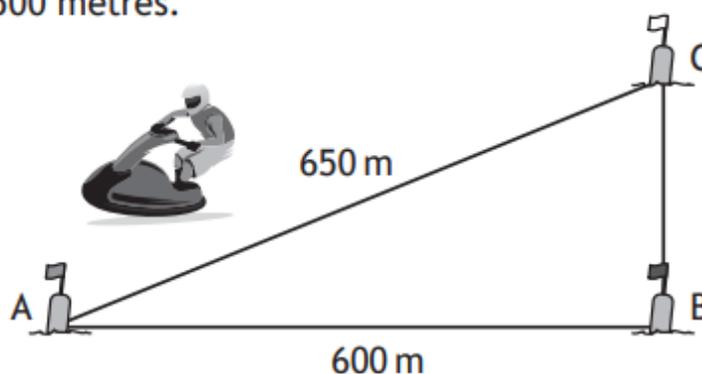


The diagram shows the course for a jet-ski race.

The course is indicated by markers A, B and C.

The total length of the course is 1500 metres.

- B is 600 metres from A
- C is 650 metres from A
- C is due north of B



Determine whether B is due east of A.

Justify your answer.

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Answer:

$250^2 + 600^2 = 650^2$, so by the Converse of Pythagoras' Theorem, B is due east of A.