

- 3** A boat moves at velocity of 4 m s^{-1} due south in still water across a lake. It then experiences a current flowing towards the west. The velocity of the boat changes to 7 m s^{-1} .

What is the change in the velocity of the boat due to the current?

- A** 3 m s^{-1} due west
- B** 3 m s^{-1} due west of south
- C** 6 m s^{-1} due west
- D** 6 m s^{-1} due west of south