2   A boat changes its velocity from $8\,ms^{-1}$ due north to $6\,ms^{-1}$ due east.

What is its change in velocity?

A $2\,ms^{-1}$ at a direction of 37° east of north

B $2\,ms^{-1}$ at a direction of 53° east of north

C $10\,ms^{-1}$ at a direction of 37° east of south

D $10\,ms^{-1}$ at a direction of 53° west of south