3 An object is projected with velocity 40 m s^{-1} at an angle of 60° to the horizontal. Air resistance is negligible.

What is the speed of the object after 5.0 s?

A 14 m s^{-1} **B** 25 m s^{-1} **C** 35 m s^{-1} **D** 45 m s^{-1}