

- 6 A ball is travelling horizontally at a speed of 7.0 m s^{-1} . The ball hits a vertical wall and rebounds along its initial path at a speed of 5.0 m s^{-1} .

The ball has an acceleration of 300 m s^{-2} while in contact with the wall.

Which of the following expressions gives the time of contact t between the ball and the wall?

☐ A $t = \frac{-5 - 7}{-300}$

☐ B $t = \frac{5 - 7}{-300}$

☐ C $t = \frac{-5 - 7}{300}$

☐ D $t = \frac{5 - 7}{300}$

(Total for Question 6 = 1 mark)