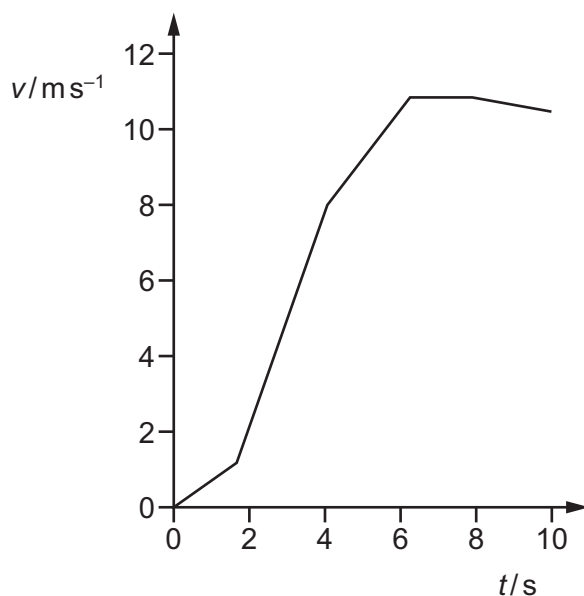
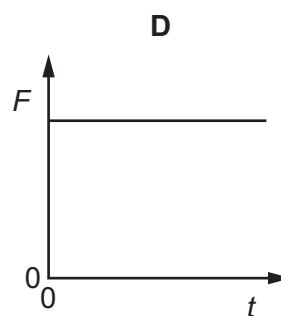
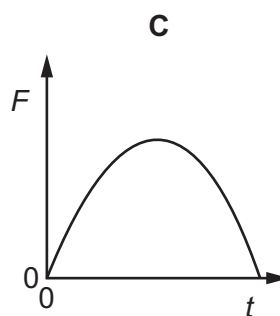
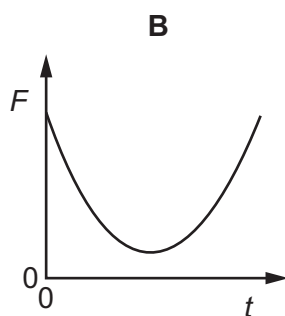
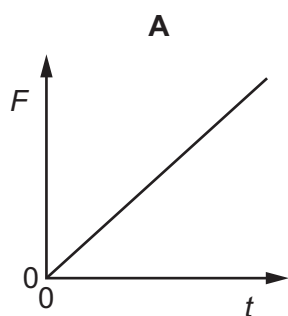


- 9 The graph shows how the speed  $v$  of a sprinter changes with time  $t$  during a 100 m race.



What is the best estimate of the maximum acceleration of the sprinter?

- A**  $0.5 \text{ ms}^{-2}$       **B**  $1 \text{ ms}^{-2}$       **C**  $3 \text{ ms}^{-2}$       **D**  $10 \text{ ms}^{-2}$
- 10 A tennis ball is dropped onto a table and bounces back up. The table exerts a force  $F$  on the ball.
- Which graph best shows the variation with time  $t$  of the force  $F$  while the ball is in contact with the table?



Space for working