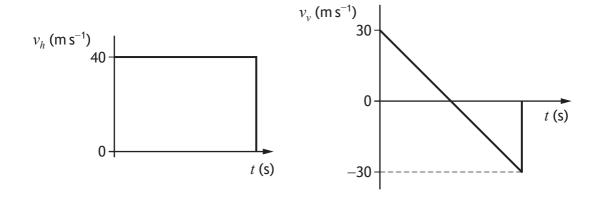
3. A golfer strikes a golf ball, which then moves off at an angle to the ground. The ball follows the path shown.



The graphs show how the horizontal component of the velocity v_h and the vertical component of the velocity v_v of the ball vary with time t.



The speed of the ball just before it hits the ground is

- A $10 \,\mathrm{m}\,\mathrm{s}^{-1}$
- $\rm B \ 30 \, m \, s^{-1}$
- C $40 \, \text{m s}^{-1}$
- D $50 \, \text{m s}^{-1}$
- E $70 \,\mathrm{m}\,\mathrm{s}^{-1}$.