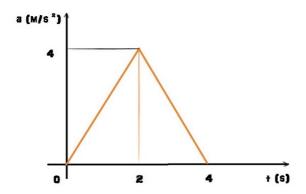
Example: Acceleration-time graph of a particle moving in a straight line is shown in Figure. The velocity of particle at time t=0 is $2\ m/s$. Velocity at the end of fourth second is



- a) 8 m/s
- b) 10 m/s
- c) 12 m/s
- d) 14 m/s

{ Hint: Area under the acceleration-time graph is change in velocity. Area of the triangle is Half (into) base (into) altitude = $8 m/s.\ Adding$ the initial value of 2 m/s, we get $2\,+\,8\,=\,10 m/s.$

Answer: b) is the correct answer }