

Kai argues that the point (2, 11) is on the graph, so the particle has travelled a distance of 11 metres in the first 2 seconds.

- [1]
- Comment on the validity of Kai's argument.
- **(b)** Determine the total distance the particle travels in the first 10 seconds. [3]
- (c) Find an expression for the velocity of the particle at time t. [2]

[2]

(d) Find the speed of the particle when t = 10.