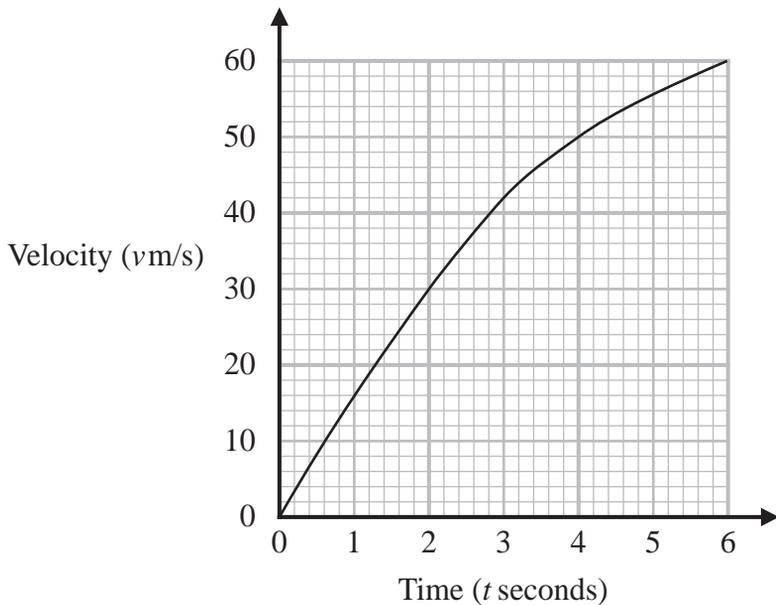


12 The graph shows the velocity, v m/s, of a particle t seconds after it starts to move.



- (a) (i) Work out an estimate of the gradient of the graph at $t = 3$
You must show how you get your answer.

(3)

- (ii) What does this gradient represent?

(1)

(b) Work out an estimate for the distance the particle travelled in the first 6 seconds.
Use 3 strips of equal width.

..... m

(3)