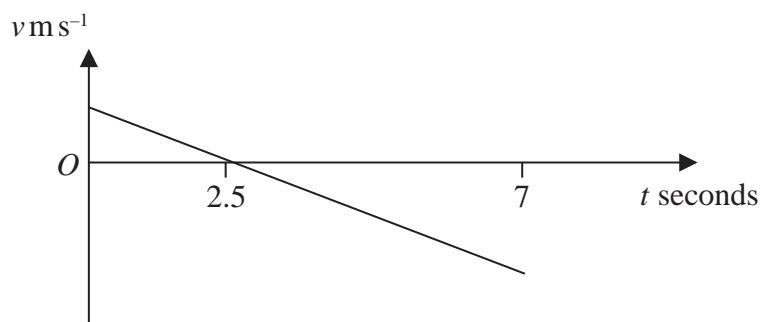


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6.



A small ball is thrown vertically upwards at time $t = 0$ from a point A which is above horizontal ground. The ball hits the ground 7 s later.

The ball is modelled as a particle moving freely under gravity.

The velocity-time graph shown in Figure 3 represents the motion of the ball for $0 \leq t \leq 7$

- (a) Find the speed with which the ball is thrown. **(2)**
- (b) Find the height of A above the ground. **(3)**



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Question 6 continued

Q6

(Total 5 marks)

