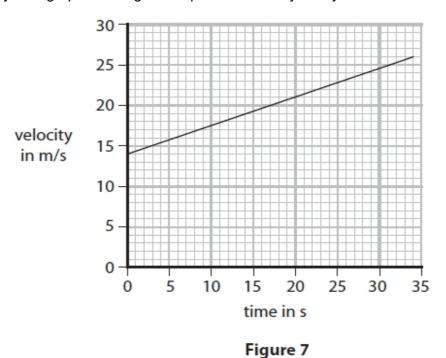
Questions

Q1.

Figure 7 is a velocity/time graph showing a 34 s part of a train's journey.



(i) Calculate the acceleration of the train in the 34 s.

Give your answer to an appropriate number of significant figures.

acceleration = m/s²

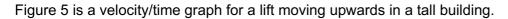
(ii) Calculate the distance the train travels in the 34 s.

(3)

(3)

distance m

(Total for question = 6 marks) (Q04b 1SC0/1PH, Nov 2021)



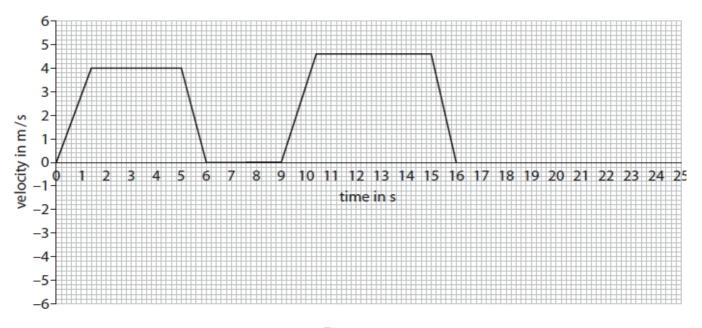


Figure 5

Use the graph in Figure 5 to determine the acceleration of the lift during the first 1.4 s.

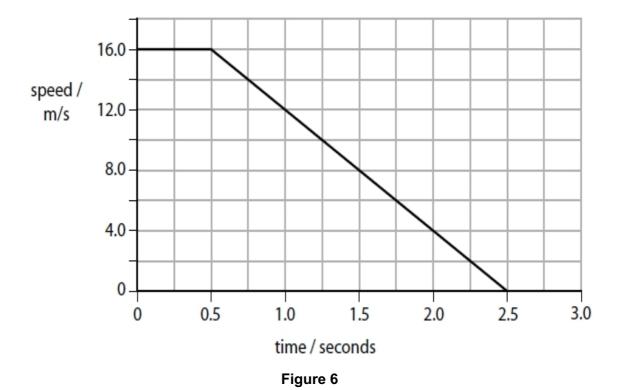
(3)

acceleration = m/s²

(Total for question = 3 marks) (QU03c 1SC0/1PH, June 2023) A car driver sees a rabbit on the road.

The driver makes an emergency stop after he sees the rabbit.

Figure 6 shows the speed of the car from the time the driver sees the rabbit until the car stops.



Calculate the distance that the car travels in the first 0.5 seconds.

(3)

distance = m

(Total for question = 3 marks) (Q04aii 1SC0/1PF, SAM 2016)