

MOTION IN A STRAIGHT LINE UNDER CONSTANT ACCELERATION

 1. Using $v = u + at$

$$v = 8 + 1.5(3) = 12.5 \text{ ms}^{-1}$$

M1

A1

 Using $s = ut + \frac{1}{2}at^2$

$$= 8 \times 3 + \frac{1}{2} \times 1.5 \times 9 = 30.75 \text{ m}$$

M1

A1

[4]

 2. a) Using $v^2 = u^2 + 2ah$

$$h = \frac{100^2}{2g} \approx 510.2 \text{ m}$$

M1

A1

[2]

 b) Time to fall through 460.2 m = $\frac{1}{2}$ time that particle is over 50 m above ground.

M1

$$s = ut + \frac{1}{2}at^2 \Rightarrow 460.2 = \frac{1}{2}gt^2$$

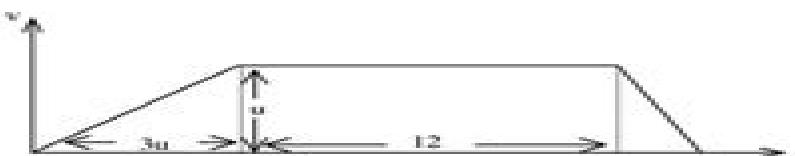
$$\text{Time required} = 2\sqrt{\frac{920.4}{g}} \text{ sec.} \\ \approx 19.4 \text{ seconds}$$

M1 A1

A1

[4]

3.


 Let top speed be u . Then time spent accelerating is $3u$

B1

$$\text{Area} = \text{distance covered: } \frac{u}{2} [60 + 12] = 432$$

M1 A1

$$36u = 432$$

M1

$$\Rightarrow u = 12, \text{ top speed}$$

A1

$$\text{Thus decelerating is } 60 - 12 - 3u = 12 \text{ seconds}$$

M1 A1

[7]

Study Guide Motion With Constant Acceleration Answers

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Study Guide Motion With Constant Acceleration Answers:

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