

2. (a) Total K.E. of John and his car

$$\begin{aligned}
 &= \frac{1}{2} m v^2 \\
 &= \frac{1}{2} \times 1400 \text{ kg} \times (27.8 \text{ m s}^{-1})^2 \\
 &= 540\,210 \\
 &\approx 540 \text{ kJ}
 \end{aligned}$$

1A

Average output power of the car

$$\begin{aligned}
 &= \frac{\text{energy}}{\text{time}} \\
 &= \frac{540\,210 \text{ J}}{9.3 \text{ s}} \\
 &= 58\,087 \\
 &\approx 58.1 \text{ kW}
 \end{aligned}$$

1M

1A

2

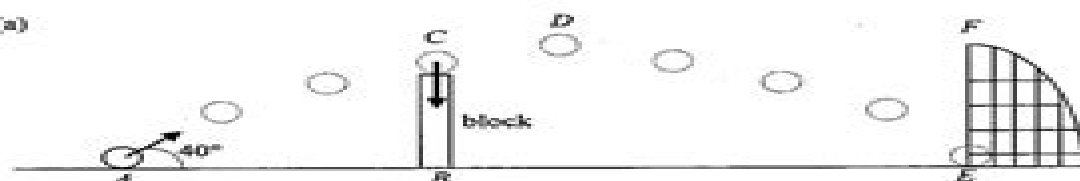
- (b) As the car is accelerating up an inclined road, the potential energy of the car is increasing. As the power of the car remains unchanged, it takes a longer time for the car to accelerate up an inclined road.

1A

1A

2

3. (a)



1A

1

(b) $y = u \sin \theta t - \frac{1}{2} g t^2$

For $y = 0$, $t = \frac{2 u \sin \theta}{g}$ (1)

$x = u \cos \theta t$ (2)

Sub. (1) into (2) : $R = u \cos \theta \left(\frac{2 u \sin \theta}{g} \right)$

$$= \frac{u^2 \sin 2\theta}{g}$$

For $R' = R$, $\sin (180^\circ - 2\theta') = \sin (2 \times 40^\circ)$
 $2\theta' = 100^\circ$
 $\theta' = 50^\circ$

1A

4

- (c) By conservation of energy,

$$\begin{aligned}
 \frac{1}{2} m (10)^2 &= \frac{1}{2} m v_c^2 + m (9.81)(1.6) \\
 v_c^2 &= 68.6 \\
 v_c &= 8.28 \text{ m s}^{-1}
 \end{aligned}$$

Alternatively :

$$v = u + at$$

For $v_y = -u \sin \theta$ at E

$$-u \sin \theta = u \sin \theta - gt$$

$$t = \frac{2 u \sin \theta}{g}$$

And $R = u \cos \theta t$

1M

1M

1M

Alternatively :

$$v^2 = u^2 + 2as$$

$$v_y^2 = (10 \sin 40^\circ)^2 - 2(9.81)(1.6)$$

$$= 9.93 \text{ m}^2 \text{ s}^{-2}$$

$$v_y = 3.15 \text{ m s}^{-1}$$

$$\& v_x = 10 \cos 40^\circ = 7.66 \text{ m s}^{-1}$$

1M

1A

2

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