

# AS & A Level Math

9709/42

## Mechanics 1

October November 2022

Full Solution

CANDIDATE  
NAME

CENTRE  
NUMBER

CANDIDATE  
NUMBER

MATHEMATICS

Paper 1 Mechanics

9709/42

October/November 2022

1 hour 15 minutes

You must answer on the question paper.

You will need: List of formulae (MF 10)

### INSTRUCTIONS

- Answer all questions.
- Use a ruler or other scale pen. You may use an M10 pencil for any diagrams or graphs.
- Give your name, centre number and candidate number in the boxes at the top of the page.

A force of magnitude  $7.2\text{ N}$  is now applied to  $P$  directly up a line of greatest slope of the plane.

(i) Hence find  $P$  starts from rest, find the time that it takes for  $P$  to start to go up the plane.

$$\begin{aligned}
 F_g &= \mu R - mg \sin \theta = ma \\
 7.2 &= \frac{1}{3} (mg \cos \theta) - mg \sin \theta = ma \\
 7.2 &= \frac{1}{3} \times 24 \cos 30^\circ - 24 \sin 30^\circ \\
 &= 8\sqrt{3} - 12 \\
 7.2 &= 8\sqrt{3} - 12 \Rightarrow 20 = 8\sqrt{3} \Rightarrow \sqrt{3} = 2.5 \\
 7.2 &= 20 - 12 = 8 \Rightarrow a = 1 \text{ m/s}^2 \\
 0 &= 0 + at \Rightarrow t = 0.4 \text{ s} \\
 \frac{0}{0.4} &= a \Rightarrow a = 1 \text{ m/s}^2 \\
 1 &= 0 + \frac{1}{2} at^2 \Rightarrow t = 0.4 \text{ s}
 \end{aligned}$$



A block  $P$  of mass  $2\text{ kg}$  is suspended by a light, inextensible rope at a point  $A$  of a fixed support. The rope passing the point  $A$  is held taut in a horizontal line. A force of magnitude  $7.2\text{ N}$  is applied to the block at point  $B$  in the horizontal line. A force of magnitude  $20\text{ N}$  is applied to the block at point  $C$  in the vertical line. The rope is held taut. The block is in equilibrium.

(i) Find the acceleration of the block and the tension in the rope.

$$\begin{aligned}
 \text{Net force} &= 7.2 - 20 = -12.8 \text{ N} \\
 \text{Net force} &= -12.8 \text{ N} = ma \\
 -12.8 &= 2a \Rightarrow a = -6.4 \text{ m/s}^2 \\
 T &= 20 - 12.8 = 7.2 \text{ N} \\
 T &= 7.2 \text{ N}
 \end{aligned}$$

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**Michael Rajnik**



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