

Question 1

3)



$$W = 30 \text{ N} \rightarrow \text{tension} = 25 \text{ N} \rightarrow m = 3 \text{ kg}$$

$$T = 25 \text{ N}$$

limiting equilibrium $\sum F_{\text{net}} = 0$
 $\sum F_x = 0 \rightarrow F_{\text{st}} = T$

$$F(+) \quad F_{\text{st}} = 25 - 30 \text{ N}$$

$$F(-) \quad T = F_{\text{st}} = 25 \text{ N}$$

$$25 = 30 \mu \rightarrow \boxed{\mu = \frac{25}{30} = 0.8}$$

4)



$$T = 25 \text{ N}$$

$$W = 30 \text{ N}, \quad m = 3 \text{ kg}$$

$$\text{motion} \rightarrow F_{\text{st}} = \mu F_N$$

$$F_{\text{st}} = T \cos 30^\circ$$

$$F_N = T \sin 30^\circ$$

$$F(+) \quad F_N + F_{\text{st}} = W$$

$$F_N = W - F_{\text{st}} = 30 - 25 \cos 30^\circ$$

$$F(-) \quad F_{\text{net}} = ma = 3a$$

$$F_{\text{net}} = F_{\text{st}} - F_{\text{fr}} = 25 \cos 30^\circ - 0.8 F_N$$

$$3a = 25 \cos 30^\circ - 0.8 (30 - 25 \cos 30^\circ)$$

$$\boxed{a = \frac{25 \cos 30^\circ - 24}{3} = 0.88 \text{ ms}^{-2}}$$

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Douglas Quadling, Julian Gilbey



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Cambridge International AS and A Level Mathematics: Mechanics 1 Coursebook Douglas Quadling, Julian Gilbey, 2016-07-14 Cambridge AS and A Level Mathematics is a revised series to ensure full syllabus coverage This coursebook has been revised and updated to ensure that it meets the requirements for the Mechanics 1 M1 unit of Cambridge AS and A Level Mathematics 9709 This revised edition adds clarifications to sections on forces and equilibrium kinematics of motion in a straight line and Newton s laws of motion All of the review questions have been updated to reflect changes in the style of questions asked in the course

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