



JoeWang

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1 A load is suspended from a thread. The vertical force on the thread due to the load is 0.75 N.

(a) Calculate the mass of the load.

$$m = \frac{W}{g} = 0.75 / 9.8 = 0.0765 \approx 0.08 \quad \text{mass} = \underline{0.08 \text{ kg}} \quad [2]$$

(b) Fig. 1.1 shows the load suspended from the thread.



Fig. 1.1

A wire is attached to the load at point X and pulled horizontally to the right.

The tension in the horizontal wire is 1.2 N.

By drawing a scale diagram or by calculation, determine:

- the magnitude of the resultant of the force at X due to the load and due to the tension in the wire
- the direction of the resultant relative to the vertical direction.

Show your working.

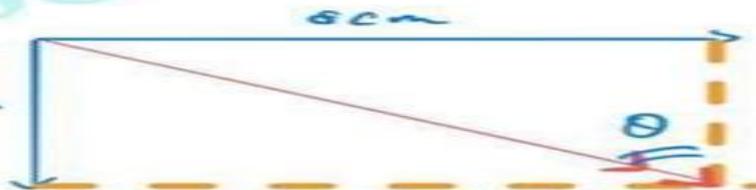
Scale $1 \text{ cm} = 0.15 \text{ N}$

$$F = \sqrt{8^2 + 5^2} \times 0.15$$

$$= 1.42 \text{ (N)}$$

$$\tan \theta = \frac{8}{5}$$

$$\theta =$$



magnitude of resultant force = $\underline{1.42}$ N

direction of resultant relative to vertical = $\underline{58}$ [4]

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0625/42/M/J/24

IG物理 | 2024 M/J 简答题 part 1

#0625 #IGCSE #physics #简答题 #仅供参考

前五题难度一般吧 😊

除了Q5画图题可能会有人漏看？或者画的时候没有注意角度已经大于critical angle. 应该发生全内反射

Say something...

145

56

79

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SJ Ball



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