

Mechanics 1 Resolving Forces Questions

- 8 A rough slope is inclined at an angle of 25° to the horizontal. A box of weight 80 newtons is on the slope. A rope is attached to the box and is parallel to the slope. The tension in the rope is of magnitude T newtons. The diagram shows the slope, the box and the rope.



- (a) The box is held in equilibrium by the rope.
- (i) Show that the normal reaction force between the box and the slope is 72.5 newtons, correct to three significant figures. *(3 marks)*
 - (ii) The coefficient of friction between the box and the slope is 0.32. Find the magnitude of the maximum value of the frictional force which can act on the box. *(2 marks)*
 - (iii) Find the least possible tension in the rope to prevent the box from moving down the slope. *(4 marks)*
 - (iv) Find the greatest possible tension in the rope. *(3 marks)*
 - (v) Show that the mass of the box is approximately 8.16 kg. *(1 mark)*
- (b) The rope is now released and the box slides down the slope. Find the acceleration of the box. *(3 marks)*
-
- 2 A particle is in equilibrium under the action of four horizontal forces of magnitudes 5 newtons, 8 newtons, P newtons and Q newtons, as shown in the diagram.



- (a) Show that $P = 9$. *(3 marks)*
- (b) Find the value of Q . *(2 marks)*

Mechanics M1 Resolving Forces Exercises

Terry C. Jones



Mechanics M1 Resolving Forces Exercises:

Mechanics M1 Resolving Forces Exercises Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Mechanics M1 Resolving Forces Exercises**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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