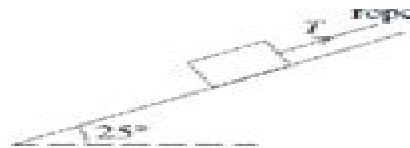
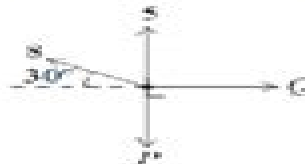


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- 8 A rough slope is inclined at an angle of 25° to the horizontal. A box of weight 80 newtons is on the slope. A rope is attached to the box and is parallel to the slope. The tension in the rope is of magnitude T newtons. The diagram shows the slope,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

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Table of Contents Mechanics M1 Resolving Forces Exercises

1. Understanding the eBook Mechanics M1 Resolving Forces Exercises
 - The Rise of Digital Reading Mechanics M1 Resolving Forces Exercises
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics M1 Resolving Forces Exercises
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanics M1 Resolving Forces Exercises
 - User-Friendly Interface

4. Exploring eBook Recommendations from Mechanics M1 Resolving Forces Exercises
 - Personalized Recommendations
 - Mechanics M1 Resolving Forces Exercises User Reviews and Ratings
 - Mechanics M1 Resolving Forces Exercises and Bestseller Lists
5. Accessing Mechanics M1 Resolving Forces Exercises Free and Paid eBooks
 - Mechanics M1 Resolving Forces Exercises Public Domain eBooks
 - Mechanics M1 Resolving Forces Exercises eBook Subscription Services
 - Mechanics M1 Resolving Forces Exercises Budget-Friendly Options
6. Navigating Mechanics M1 Resolving Forces Exercises eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanics M1 Resolving Forces Exercises Compatibility with Devices
 - Mechanics M1 Resolving Forces Exercises Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanics M1 Resolving Forces Exercises
 - Highlighting and Note-Taking Mechanics M1 Resolving Forces Exercises
 - Interactive Elements Mechanics M1 Resolving Forces Exercises
8. Staying Engaged with Mechanics M1 Resolving Forces Exercises
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanics M1 Resolving Forces Exercises
9. Balancing eBooks and Physical Books Mechanics M1 Resolving Forces Exercises
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanics M1 Resolving Forces Exercises
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mechanics M1 Resolving Forces Exercises
 - Setting Reading Goals Mechanics M1 Resolving Forces Exercises
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Mechanics M1 Resolving Forces Exercises
 - Fact-Checking eBook Content of Mechanics M1 Resolving Forces Exercises
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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