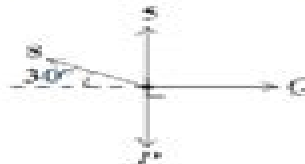


## Mechanics 1 Resolving Forces Questions

- 8 A rough slope is inclined at an angle of  $25^\circ$  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

**Disha Experts**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'Disha Experts' text.

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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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