

## 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.

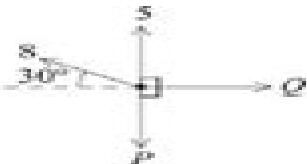


(a) The box is held in equilibrium by the rope.

- Show that the normal reaction force between the box and the slope is 72.5 newtons, correct to three significant figures. (3 marks)
- 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)
- Find the least possible tension in the rope to prevent the box from moving down the slope. (4 marks)
- Find the greatest possible tension in the rope. (3 marks)
- 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  $S$  newtons, 8 newtons,  $P$  newtons and  $Q$  newtons, as shown in the diagram.



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

# Mechanics M1 Resolving Forces Exercises

**Peter Merton McGinnis**

## **Mechanics M1 Resolving Forces Exercises:**

**Mechanical Engineering Principles** John Bird, Carl Ross, 2012-05-04 Mechanical Engineering Principles offers a student friendly introduction to core engineering topics. This book introduces mechanical principles and technology through examples and applications rather than theory. John Bird and Carl Ross do not assume any previous background in engineering studies and as such this book can act as a core textbook for several engineering courses. This approach enables students to develop a sound understanding of engineering principles and their use in practice. These theoretical concepts are supported by 320 fully worked problems, nearly 600 further problems with answers and 276 multiple choice questions giving the reader a firm grounding on each topic. The new edition is up to date with the latest BTEC National specifications and can also be used on undergraduate courses in mechanical, civil, structural, aeronautical and marine engineering together with naval architecture. A chapter has been added at the beginning on revisionary mathematics since progress in engineering studies is not possible without some basic mathematics knowledge. Minor modifications and some further worked problems have also been added throughout the text. Colour layout helps navigation and highlights key points. Student friendly approach with numerous worked problems, multiple choice and short answer questions, exercises, revision tests and nearly 400 diagrams. Supported with free online material for students and lecturers. Readers will also be able to access the free companion website at [www.routledge.com/bird](http://www.routledge.com/bird) where they will find videos of practical demonstrations by Carl Ross. Full worked solutions of all 600 of the further problems will be available for lecturers/instructors use as will the full solutions and marking scheme for the 8 revision tests.

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**Biomechanics of Sport and Exercise** Peter Merton McGinnis, 2005 Biomechanics of Sport and Exercise Second Edition introduces exercise and sport biomechanics in concise terms rather than focusing on complex math and physics. This book helps students learn to appreciate external forces and their effects, how the body generates forces to maintain position and how forces create movement in physical activities.

**Elementary Mechanics** Joseph Benson Reynolds, 1934      **Analytic Mechanics** John Anthony Miller, Scott Barrett Lilly, 1915      **English Mechanic and Mirror of Science**, 1875      **The Irish Teachers' Journal and Assistant**, 1876      **Host Bibliographic Record for Boundwith Item Barcode 30112114011908 and Others**, 1900      **Collins Cambridge International AS & A Level - Cambridge International AS & A Level Mathematics Mechanics Student's Book** Tom Andrews, Michael Kent, 2021-06-07 This book provides in depth coverage of Mechanics for Cambridge International AS and A Level Mathematics 9709 for examination from 2020 onwards. With a clear focus on mathematics in life and work this text builds the key mathematical skills and knowledge that will open up a wide range of

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