

## 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

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

Cambridge International AS and A Level Mathematics: Mechanics Coursebook Jan Dangerfield, Stuart Haring, 2018-03-22 This series has been developed specifically for the Cambridge International AS A Level Mathematics 9709 syllabus to be examined from 2020 Cambridge International AS A Level Mathematics Mechanics matches the corresponding unit of the syllabus with clear and logical progression through It contains materials on topics such as velocity and acceleration force and motion friction connected particles motion in a straight line momentum and work and energy This coursebook contains a variety of features including recap sections for students to check their prior knowledge detailed explanations and worked examples end of chapter and cross topic review exercises and Explore tasks to encourage deeper thinking around mathematical concepts Answers to coursebook questions are at the back of the book **Mechanics** Martin Adams, June Haighton, Jeff Trim, 1999-07 The mathematical modelling process is used to provide a clear and structured approach to the work The stages of Define Model Interpret and Analyse are shown as an icon where this approach is used Numerous examples are provided to support both the practice and theory of mechanics in a structured and supportive way *Applied Mechanics ...* John Perry, 1905 **Mechanics** Jean Littlewood, John Hebborn, Fred Norton, 2000 A syllabus specific textbook providing worked examples exam level questions and many practice exercises in accordance to the new Edexcel AS and Advanced GCE specification Notes, Problems and Laboratory Exercises in Mechanics, Sound, Light, Thermo-mechanics and Hydraulics Halsey Dunwoody, 1917 *Analytic Mechanics* John Anthony Miller, Scott Barrett Lilly, 1915 *A-Level Maths Textbook: Year 1 & 2*, 2021-08-27 This huge CGP Textbook is packed with thousands of questions for both years of A Level Maths it is suitable for the Edexcel AQA OCR and OCR MEI courses It is perfect for helping students put their knowledge to the test and build their skills The book also contains plenty of worked examples practice exercises on almost every page and review questions at the end of each chapter Better still answers to every question are included at the back **Mechanics and Radioactivity** Mark Ellse, Chris Honeywill, 2003 The revised edition of the highly successful Nelson Advanced Science Physics series comprises lively high quality student books for AS and A2 Level Physics Nelson Thornes and Edexcel have listened carefully to customer feedback to bring the best most accurate and up to date materials to the classroom This is the only fully endorsed Advanced Level modular Edexcel specific course and Mechanics and Radioactivity provides full content coverage of Unit 1 of the AS and A2 Level specifications *Physics for Scientists and Engineers, Volume 1. Mechanics* Paul A. Tipler, Gene Mosca, 2003-07-10 New Volume 1A edition of the classic text now more than ever tailored to meet the needs of the struggling student *Mathematical Models in Applied Mechanics* Alan B. Tayler, 2001 This textbook demonstrates the power of mathematics in solving practical scientific and technical problems through mathematical modelling techniques It has been designed specifically for final year undergraduate and graduate students and springs from the author's extensive teaching experience The text is combined with twenty one carefully ordered problems taken from real

situations and students are encouraged to develop the skill of constructing their own models of new situations      **Physics for Scientists and Engineers, Volume 1: Mechanics, Oscillations and Waves; Thermodynamics** Paul A. Tipler, Gene Mosca, 2003-07-10 This is the standard text for introductory physics courses taken by science and engineering students This edition has been extensively revised with new artwork and updated examples      Analytic Mechanics Joseph Benson Reynolds, 1929

**An elementary text-book of mechanics (kinematics and dynamics).** Joshua Joseph J. Doherty, 1885

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**Mechanics, ...** Morgan William Crofton, 1877

**Elementary Mechanics** Joseph Benson Reynolds, 1934

**A Level**

**Mathematics for OCR A Student Book 1 (AS/Year 1)** Ben Woolley, 2017-07-06 New 2017 Cambridge A Level Maths and Further Maths resources help students with learning and revision Written for the OCR AS A Level Mathematics specifications for first teaching from 2017 this print Student Book covers the content for AS and the first year of A Level It balances accessible exposition with a wealth of worked examples exercises and opportunities to test and consolidate learning providing a clear and structured pathway for progressing through the course It is underpinned by a strong pedagogical approach with an emphasis on skills development and the synoptic nature of the course Includes answers to aid independent study      **Applied Mechanics, Embracing Strength and Elasticity of Materials, Theory and Design of Structures,**

**Theory of Machines and Hydraulics** David Allan Low, 1910

**An elementary text-book of mechanics (kinematics**

**and dynamics).** Key Joshua Joseph J. Doherty, 1884

Applied Mechanics David Allan Low, 1909

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

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