

(b) Fig. 2.1 shows the forces acting on a water drop on the windscreen of a stationary car.

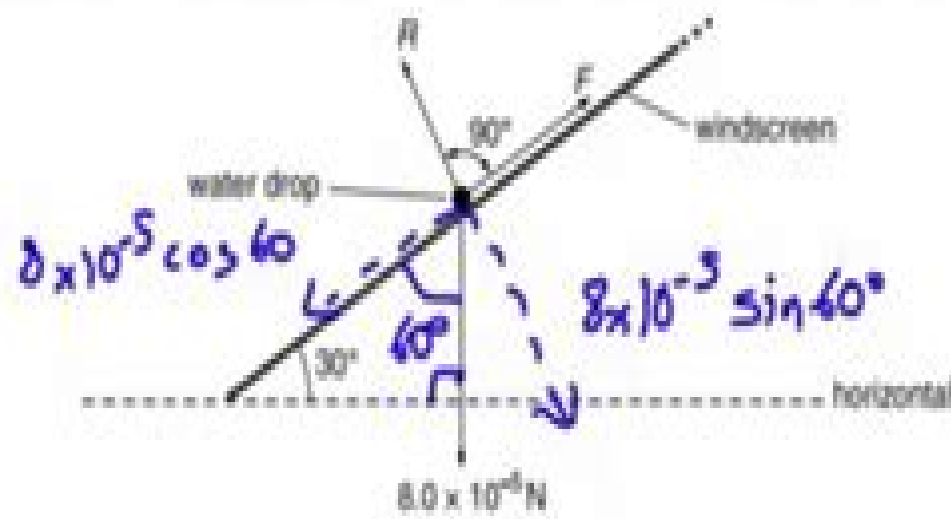


Fig. 2.1

The windscreen makes an angle of  $30^\circ$  to the horizontal. The weight of the water drop is  $8.0 \times 10^{-3} \text{ N}$ . The normal contact force on the water drop is  $R$ . There is also a force  $F$  acting on the water drop as shown. The water drop is stationary.

(ii) Determine the magnitude of  $F$ . Explain your answer.



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# June 2013 Ocr Mechanics Answers

**Jess Barker, Nathan Barker, Michele  
Conway, Janet Such**



## June 2013 Ocr Mechanics Answers:

*A Level Further Mathematics for OCR A Mechanics Student Book (AS/A Level)* Jess Barker, Nathan Barker, Michele Conway, Janet Such, 2017-12-14 New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision Written for the OCR AS A Level Further Mathematics specification for first teaching from 2017 this print Student Book covers the Mechanics content for AS and 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 **English Mechanics and the World of Science**, 1889 Advances on Mechanics, Design Engineering and Manufacturing III Lionel Roucoules, Manuel Paredes, Benoit Eynard, Paz Morer Camo, Caterina Rizzi, 2021-04-21 This open access book gathers contributions presented at the International Joint Conference on Mechanics Design Engineering and Advanced Manufacturing JCM 2020 held as a web conference on June 2 4 2020 It reports on cutting edge topics in product design and manufacturing such as industrial methods for integrated product and process design innovative design and computer aided design Further topics covered include virtual simulation and reverse engineering additive manufacturing product manufacturing engineering methods in medicine and education representation techniques and nautical aeronautics and aerospace design and modeling The book is organized into four main parts reflecting the focus and primary themes of the conference The contributions presented here not only provide researchers engineers and experts in a range of industrial engineering subfields with extensive information to support their daily work they are also intended to stimulate new research directions advanced applications of the methods discussed and future interdisciplinary collaborations **Computerworld**, 1977-11-28 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network **Geometric Methods in Physics** Piotr Kielanowski, Pierre Bieliavsky, Alexander Odesskii, Anatol Odziejewicz, Martin Schlichenmaier, Theodore Voronov, 2014-08-19 The Bia owie a Workshops on Geometric Methods in Physics which are hosted in the unique setting of the Bia owie a natural forest in Poland are among the most important meetings in the field Every year some 80 to 100 participants from both the mathematics and physics world join to discuss new developments and to exchange ideas The current volume was produced on the occasion of the 32nd meeting in 2013 It is now becoming a tradition that the Workshop is followed by a School on Geometry and Physics which consists of advanced lectures for graduate students and young researchers Selected speakers at the 2013 Workshop were asked to contribute to this book and their work was supplemented by additional review articles The selection shows that despite its now long tradition the workshop remains at the cutting edge of research The 2013 Workshop also celebrated

the 75th birthday of Daniel Sternheimer and on this occasion the discussion mainly focused on his contributions to mathematical physics such as deformation quantization Poisson geometry symplectic geometry and non commutative differential geometry

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