

1. A particle  $P$  is projected with speed  $u \text{ ms}^{-1}$  from the top of a smooth inclined plane of length  $2d$  metres. After its projection  $P$  moves downwards along a line of greatest slope with acceleration  $4 \text{ ms}^{-2}$ . At the instant  $1/2$  after projection  $P$  has moved half way down the plane.  $P$  reaches the foot of the plane  $1/2$  after the instant of projection.

(i) Form two simultaneous equations in  $u$  and  $d$ , and hence calculate the speed of projection of  $P$  and the length of the plane. [4]

(ii) Find the inclination of the plane to the horizontal. [2]

(iii) Given that the contact force exerted on  $P$  by the plane has magnitude  $6 \text{ N}$ , calculate the mass of  $P$ . [2]

i)

$$a = 4 \quad a = 4$$

$$t = 3 \quad t = 5$$

$$s = d \quad s = 2d$$

$$s = ut + \frac{1}{2}at^2$$

$$s = ut + \frac{1}{2}at^2$$

$$d = u\left(\frac{1}{2}\right) + \frac{1}{2}(4)\left(\frac{1}{2}\right)^2$$

$$2d = 5u + \frac{1}{2}(4)(5)^2$$

$$d = 3u + 18$$

$$d = 3u + 18 \quad (1)$$

$$2d = 5u + 50 \quad (2)$$

$$d = 3(14) + 18$$

$$(1) \times 2$$

$$6u = 5u + 50$$

$$d = 60 \text{ m}$$

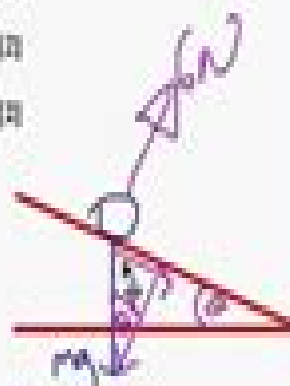
$$2d = 6u + 36$$

$$u = 14 \text{ ms}^{-1}$$

$$\text{length of plane} = 80 \text{ m}$$

$$(iii) R(\nearrow) \quad 6 = mg \cos(24.1^\circ)$$

$$m = 0.671 \text{ kg}$$



$$\begin{aligned}
 (ii) \quad F &= ma \\
 mg \sin \theta &= m(4) \\
 \sin \theta &= \frac{4}{g} \\
 \theta &= 24.1^\circ
 \end{aligned}$$

# June 2013 Ocr Mechanics 1 Answers

**F. B. J. Barends**



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**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 *Procedures and Patient Care for the Physical Therapist Assistant* Jennifer Memolo, 2024-06-01 Procedures and patient care will be one of the first courses a physical therapist assistant PTA student will encounter as they begin their educational career The foundational material covered in Procedures and Patient Care for the Physical Therapist Assistant includes information about transfers positioning vital sign measurement wheelchair fit and management assistive devices and gait These skills are vital to know as a PTA regardless of specialization or location of employment Inside Procedures and Patient Care for the Physical Therapist Assistant Jennifer Memolo includes objectives key terms common abbreviations and review questions Also in each chapter is information adhering to the current best practice and an understanding of red flags a PTA should know and report to supervising physical therapists or other health care providers This text stands out from others because it is catered specifically to PTA students rather than the generalized health care practitioner It can be used throughout the student's education as a reference since all other courses build upon and cycle back to this core information It can also be utilized even after graduation as preparatory material for the board examination or as a refresher for the practicing clinician Included with the text are online supplemental materials for faculty use in the classroom Procedures and Patient Care for the Physical Therapist Assistant provides core information that the PTA will use and build upon throughout their entire career which is what makes it a suitable text for students faculty and clinicians **English Mechanics and the World of Science**, 1889

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

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automatic solution of mathematical models Effective numerical schemes for fluid flows The development of an effective mesh free numerical solution method The development of numerical procedures for multiphysics problems The development of numerical procedures for multiscale problems The modelling of uncertainties The analysis of complete life cycles of systems Education teaching sound engineering and scientific judgement      **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      **Geotechnical Engineering for Transportation Infrastructure** F. B. J. Barends, 1999      Microform Review ,1995      **Nuclear Science Abstracts** ,1975-02      **Journal of Geotechnical Engineering** ,1987      **Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.),1993      **East European Accessions Index** ,1955      **Building on the Success of 35 Years of Title IX** United States. Congress. House. Committee on Education and Labor. Subcommittee on Higher Education, Lifelong Learning, and Competitiveness,2008      The Times Index ,2011 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement      **Coal Age** ,1969      **Experimental Investigation of the Uplift Behavior of Spread Foundations in Cohesionless Soil** Costakis N. Nicolaides,1986      CANCAM 77 ,1977      Science Abstracts ,1955      **Library & Information Science Abstracts** ,1992      The New York Times Index ,1944

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