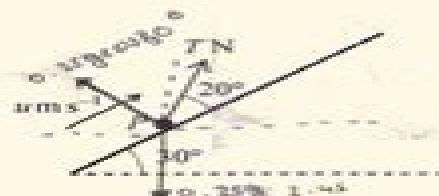1   Three horizontal forces, acting at a single point, have magnitudes 12 N, 14 N and 5 N and act along bearings $000°$, $090°$ and $270°$ respectively. Find the magnitude and bearing of their resultant.   [5]

2   A particle $P$ moves in a straight line. The displacement of $P$ from a fixed point on the line is $(t^4 - 2t^3 + 5)$ m, where $t$ is the time in seconds. Show that, when $t = 1.5$,

   (i)   $P$ is at instantaneous rest,   [3]

   (ii)  the acceleration of $P$ is $9 \, \text{m s}^{-2}$.   [3]

3



A particle $P$ of mass $0.25 \, \text{kg}$ moves upwards with constant speed $u \, \text{m s}^{-1}$ along a line of greatest slope on a smooth plane inclined at $30°$ to the horizontal. The pulling force acting on $P$ has magnitude $T$ N and acts at an angle of $20°$ to the line of greatest slope (see diagram). Calculate

   (i)   the value of $T$,   [3]

   (ii)  the magnitude of the contact force exerted on $P$ by the plane.   [3]

   The pulling force $T$ N acting on $P$ is suddenly removed, and $P$ comes to instantaneous rest $0.4 \, \text{s}$ later.

   (iii) Calculate $u$.   [4]

4   The acceleration of a particle $P$ moving in a straight line is $(t^2 - 9t + 18) \, \text{m s}^{-2}$, where $t$ is the time in seconds.

   (i)   Find the values of $t$ for which the acceleration is zero.   [2]

   (ii)  It is given that when $t = 3$ the velocity of $P$ is $9 \, \text{m s}^{-1}$. Find the velocity of $P$ when $t = 0$.   [4]

   (iii) Show that the direction of motion of $P$ changes before $t = 1$.   [2]

**Clifford Lane**

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*Annual Report of the Secretary of the State Board of Agriculture of the State of Michigan and ... Annual Report of the Agricultural College Experiment Station from ...* Michigan. State Board of Agriculture,1902      *Bulletin* Michigan State University. Agricultural Experiment Station,1901      Bulletin ,1899      *Plasticity and Metabolic Switching in Adipose Tissue Macrophages* Junji Xing,Liwu Li,2023-09-05 Macrophages are the most common immune cells present in adipose tissues These adipose tissue macrophages ATMs have an important role in regulating homeostasis and contributing to the metabolically harmful chronic inflammation seen in some obese individuals Macrophages are cells exhibiting plasticity that is to alter their polarization between pro and anti inflammatory phenotypes in response to stimuli in their microenvironments There has been a deal of evidence supporting the heterogeneity of these ATM populations however research into their differential functionality developmental origin and phenotype warrants further research to reach a consensus Further questions remain regarding the nature of this macrophage differentiation and plasticity and whether it is innately determined or is induced by the specific adipose tissue microenvironment Differences in the phenotypes of metabolically unhealthy obese MUO and the metabolically healthy obese MHO individuals suggest that there are differences in both tissues and overall systemic function The divergent phenotypes seen in MHO and MUO individuals provides evidence that differences in adipose tissue function are determined by local inflammatory responses driven by macrophage plasticity towards pro inflammatory phenotypes      **Key Maths GCSE** ,2002 These resources offer a range of material for the OCR Specification Provide test questions for each chapter together with detailed mark schemes      *Reprogramming the Cellular, Molecular and Metabolic Architecture of the Tumor Microenvironment for Effective Cancer Immunotherapy* Soumen Chakraborty,David Han,Deepak Kumar,Anil Shanker,2023-02-16      **Bulletins** ,1900      **Havoc in the Hub** Peter Wolfe,2007-01-01 Havoc in the Hub brings to light the long neglected work of George V Higgins revealing the wealth of intellectual social literary and religious thought that underlies his 25 novels and numerous other works Higgins s writing fed by equal parts wit and sorrow touches our senses emotions and minds Peter Wolfe makes a resounding contribution to the study of this writer Wolfe places Higgins s work in its geographical context and outlines the many sources from which Higgins drew during his highly productive career The first in depth examination of George V Higgins Havoc in the Hub will interest scholars graduate students and lovers of Higgins s work alike      **Special Bulletin ...** Michigan State University. Agricultural Experiment Station,1900      **Severe Eosinophilic Disorders: Mechanisms and Clinical Management** Shigeharu Ueki,Praveen Akuthota,Josiane Sabbadini Neves,2019-12-04      **Information Processing and Management of Uncertainty in Knowledge-Based Systems** Eyke Hüllermeier,Rudolf Kruse,Frank Hoffmann,2010-06-29 The International Conference on Information Processing and Management of certainty in Knowledge Based Systems IPMU is organized every two years with the aim of bringing together scientists working on methods for the management of uncertainty and aggregation of information in

intelligent systems Since 1986 this conference has been providing a forum for the exchange of ideas between th theoreticians and practitioners working in these areas and related elds The 13 IPMU conference took place in Dortmund Germany June 28 July 2 2010 This volume contains 79 papers selected through a rigorous reviewing process The contributions re ect the richness of research on topics within the scope of the conference and represent several important developments speci cally focused on theoretical foundations and methods for information processing and management of uncertainty in knowledge based systems We were delighted that Melanie Mitchell Portland State University USA Nihkil R Pal Indian Statistical Institute Bernhard Sch olkopf Max Planck I titute for Biological Cybernetics Tubing en Germany and Wolfgang Wahlster German Research Center for Arti cial Intelligence Saarbruc ken accepted our invitations to present keynote lectures Jim Bezdek received the Kamp ede F eriet Award granted every two years on the occasion of the IPMU conference in view of his eminent research contributions to the handling of uncertainty in clustering data analysis and pattern recognition

**Mathematics** Mark Patmore,Brian Seager,2006 Written by examiners and experienced teachers this work offers study and homework support throughout GCSE It is useful as a reference source a lesson back up and a revision guide **Some Experiments with Beet Pulp as a Stock Food** Clinton DeWitt Smith,James DeLoss Towar,Levi Rawson Taft,Robert Clark Kedzie,Sanford Hamilton Fulton,M. L. Dean,1901 *Modulation of Macrophage Signaling Pathways during Bacterial Infections* Supriya Shukla,Hridayesh Prakash,Jaya Talreja,Manisha Yadav,2021-08-18 Proceedings of the Seventh International Conference on Web Handling James K. Good,2003 **Cone Penetration Testing 2018** Michael A. Hicks,Federico Pisanò,Joek Peuchen,2018-06-13 Cone Penetration Testing 2018 contains the proceedings of the 4th International Symposium on Cone Penetration Testing CPT 18 Delft The Netherlands 21 22 June 2018 and presents the latest developments relating to the use of cone penetration testing in geotechnical engineering It focuses on the solution of geotechnical challenges using the cone penetration test CPT CPT add on measurements and companion in situ penetration tools such as full flow and free fall penetrometers with an emphasis on practical experience and application of research findings The peer reviewed papers have been authored by academics researchers and practitioners from many countries worldwide and cover numerous important aspects ranging from the development of innovative theoretical and numerical methods of interpretation to real field applications This is an Open Access ebook and can be found on www taylorfrancis com *Annual Report of the Secretary of the State Board of Agriculture ... and ... Annual Report of the Experiment Station ....* Michigan. State Board of Agriculture,1901 **Cutting-Edge Research Topics on Multiple Criteria Decision Making** Yong Shi,Shouyang Wang,Yi Peng,Jianping Li,Yong Zeng,2009-07-09 MCDM 2009 the 20th International Conference on Multiple Criteria Decision M ing emerged as a global forum dedicated to the sharing of original research results and practical development experiences among researchers and application developers from different multiple criteria decision making related areas such as multiple criteria decision aiding multiple criteria classification ranking and sorting multiple obj

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