

[In this question, the horizontal unit vectors $\mathbf{i}$ and $\mathbf{j}$ are directed due east and due north respectively.]

The velocity, $\mathbf{v}$ m s⁻¹, of a particle P at time t seconds is given by

$$\mathbf{v} = (1 - 2t)\mathbf{i} + (3t - 3)\mathbf{j}$$

(a) Find the speed of P when $t = 0$ (3)

(b) Find the bearing on which P is moving when $t = 2$ (2)

(c) Find the value of t when P is moving

(i) parallel to $\mathbf{j}$,

(ii) parallel to $(-\mathbf{i} - 3\mathbf{j})$.

(6)

Ocr M1 June 2013 Solutions

RJ Shavelson



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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 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

Severe Eosinophilic Disorders: Mechanisms and Clinical Management Shigeharu Ueki,Praveen Akuthota,Josiane Sabbadini Neves,2019-12-04 *Theoretical Approaches to Complex Systems* R. Heim,G. Palm,2013-03-08 **The Times Index** ,2005 Indexes the Times and its supplements **Computerworld** ,1983-10-17 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 **Numerical Methods in Geotechnical Engineering IX, Volume 1** Manuel de Matos Fernandes,2018-06-22 NUMGE 2018 is the ninth in a series of conferences on Numerical Methods in Geotechnical Engineering organized by the ERTC7 under the auspices of the International Society for Soil Mechanics and Geotechnical Engineering ISSMGE The first conference was held in 1986 in Stuttgart Germany and the series continued every four years 1990 Santander Spain 1994 Manchester United Kingdom 1998 Udine Italy 2002 Paris France 2006 Graz Austria 2010 Trondheim Norway 2014 Delft The Netherlands The conference provides a forum for exchange of ideas and discussion on topics related to numerical modelling in geotechnical engineering Both senior and young researchers as well as scientists and engineers from Europe and overseas are invited to attend this conference to share and exchange their knowledge and experiences This work is the first volume of NUMGE 2018 Numerical Methods in Geotechnical Engineering IX António Cardoso,José Borges,Pedro Costa,António Gomes,José Marques,Castorina Vieira,2018-06-19 Numerical Methods in Geotechnical Engineering IX contains 204 technical and scientific papers presented at the 9th

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