

VECTORS

1. The position vectors $\mathbf{a}$ and $\mathbf{b}$ are given by

$$\mathbf{a} = 2p\mathbf{i} + 3p\mathbf{j} + 6p\mathbf{k} \quad \text{and} \quad \mathbf{b} = \mathbf{i} - 2\mathbf{j} + 2\mathbf{k},$$

where $p > 0$. It is given that $|\mathbf{a}| = |\mathbf{b}|$.

- (i) Find the exact value of p . [2]

- (ii) Show that $(\mathbf{a} + \mathbf{b}) \cdot (\mathbf{a} - \mathbf{b}) = 0$. [3]

SERIES

2. (i) Find the first ~~three~~ terms of the Maclaurin series for $e^x(1 + \sin 2x)$. [You may use standard results given in the List of Formulae (MF15).] [3]

- (ii) It is given that the first two terms of this series are equal to the first two terms in the series expansion, in ascending powers of x , of $(1 + \frac{1}{3}x)^n$. Find n and show that the third terms in each of these series are equal. [3]

SEQUENCES

3. The sum, S_n , of the first n terms of a sequence $u_1, u_2, u_3, \dots$ is given by

$$S_n = n(2n + c),$$

where c is a constant.

- (i) Find u_n in terms of c and n . [3]

- (ii) Find a recurrence relation of the form $u_{n+1} = f(u_n)$. [2]

IMPLICIT DIFFERENTIATION

4. (i) Given that $x^2 - y^2 + 2xy + 4 = 0$, find $\frac{dy}{dx}$ in terms of x and y . [4]

- (ii) For the curve with equation $x^2 - y^2 + 2xy + 4 = 0$, find the coordinates of each point at which the tangent is parallel to the x -axis. [4]

TRANSFORMATION

5. The curve with equation $y = x^3$ is transformed by a translation of 2 units in the positive x -direction, followed by a stretch with scale factor $\frac{1}{2}$ parallel to the y -axis, followed by a translation of 6 units in the negative y -direction.

- (i) Find the equation of the new curve in the form $y = f(x)$ and the exact coordinates of the points where this curve crosses the x - and y -axes. Sketch the new curve. [5]

- (ii) On the same diagram, sketch the graph of $y = f^{-1}(x)$, stating the exact coordinates of the points where the graph crosses the x - and y -axes. [3]

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A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the 'Disha Experts' text.

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years Dr Reynolds attempts to understand what these students experience during their studies how they manage new social relationships and whether upon course completion they achieved the results they desired at the outset Moreover the book aims to ascertain whether the students feel in hindsight that the decision to risk investing in UK further education was right and what they might communicate about UK study to contacts in China and elsewhere The book examines what further education institutions do well and where they might improve to help develop Chinese students educational experiences As such it will be essential reading for academics researchers and postgraduates in the fields of further education sociology of education international and intercultural education and mobility studies

Selected Papers of the Association for Teacher Education in Europe Spring Conference 2015 Linda Daniela, Irēna Žogla, 2016-12-14 The Association for Teacher Education in Europe ATEE is a non profit European organisation with the aim of enhancing the quality of teacher education in Europe and supporting the professional development of teachers and teacher educators at all levels The contents of this book represent the best papers presented at the 2015 ATEE Spring Conference a forum at which European teacher educators could learn from each other and also from experiences research and ideas from outside Europe As such this book will serve to stimulate dialogue among teacher educators researchers on teacher education students teachers employers politicians supervisory bodies NGOs and other groups involved in teacher education and research and innovation in teacher education

ECGBL2014-8th European Conference on Games Based Learning Carsten Busch, 2014-11-11

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Visualisation and Epistemological

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The Effectiveness of Mathematics Teaching in Primary Schools Zhenzhen Miao,David Reynolds,2017-07-06 The Effectiveness of Mathematics Teaching in Primary Schools Lessons from England and China provides a unique insight into the mathematics classrooms of these two countries and arrives at a time when the world is eager to know how Chinese learners consistently excel at learning mathematics and other core subjects Showcasing the kinds of teaching methods that work within and across countries this book presents a rich collection of views including those from teachers their native colleagues their foreign colleagues and the researcher regarding the quality of mathematics teaching today Interweaving scientific results about teaching and learning evaluations with multiple perspectives of various roles in and out of the classroom Miao and Reynolds offer insights into how and why different approaches of teaching have led to different learning outcomes in mathematics internationally Building on rigid and robust analyses of the most up to date data in England and China the book indicates that it is through changing teaching rather than changing teachers that mathematics learning can be improved because it is what teachers do in the classroom that really makes a big difference Containing four decades of wisdom from the field of teaching effectiveness research this book is essential reading for all who want to improve the quality of mathematics teaching worldwide This book is particularly relevant for educational researchers postgraduate students and teachers as well as school leaders policymakers and parents

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