

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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educational research Statistics of Land-grant Colleges and Universities United States. Office of Education,1960 **Daily Graphic** Ransford Tetteh,2010-09 *The National Bibliography of Nigeria* ,1988 **Bulletin** United States. Office of Education,1961 Educational Trends in the Caribbean Charles Christian Hauch,1960 **Bulletin** ,1960 *The Philosophy of Mathematics Education* Paul Ernest,2002-11-01 Although many agree that all teaching rests on a theory of knowledge there has been no in depth exploration of the implications of the philosophy of mathematics for education This is Paul Ernest s aim Building on the work of Lakatos and Wittgenstein it challenges the prevalent notion that mathematical knowledge is certain absolute and neutral and offers instead an account of mathematics as a social construction This has profound educational implications for social issues including gender race and multiculturalism for pedagogy including investigations and problem solving and challenges hierarchical views of mathematics learning and ability Beyond this the book offers a well grounded model of five educational ideologies each with its own epistemology values aims and social group of adherents An analysis of the impact of these groups on the National Curriculum results in a powerful critique revealing the questionable assumptions values and interests upon which it rests The book finishes on an optimistic note arguing that pedagogy left unspecified by the National Curriculum is the way to achieve the radical aims of educating confident problem posers and solvers who are able to critically evaluate the social uses of mathematics **Hearings, Reports and Prints of the House Committee on Education and Labor** United States. Congress. House. Committee on Education and Labor,1971

Daily Graphic , **Adults' Mathematical Thinking and Emotions** Jeff Evans,2002-01-04 The crisis around teaching and learning of mathematics and its use in everyday life and work relate to a number of issues These include The doubtful transferability of school maths to real life contexts the declining participation in A level and higher education maths courses the apparent exclusion of some groups such as women and the aversion of many people to maths This book addresses these issues by considering a number of key problems in maths education and numeracy differences among social groups especially those related to gender and social class the inseparability of cognition and emotion in mathematical activity the understanding of maths anxiety in traditional psychological psychoanalytical and feminist theories how adults numerate thinking and performance must be understood in context The author s findings have practical applications in education and training such as clarifying problems of the transfer of learning and of countering maths anxiety Educational Research in Europe United States. Congress. House. Education and Labor,1971 Committee Prints United States. Congress. House. Committee on Education and Labor,1971

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