

- 1.) Solve the equation  $2\cos x = \sin 2x$ , for  $0 \leq x \leq 3\pi$ .

(Total 7 marks)

- 2.) The straight line with equation  $y = \frac{3}{4}x$  makes an acute angle with the  $x$ -axis.

- (a) Write down the value of  $\tan \theta$ .

(1)

- (b) Find the value of

(i)  $\sin 2\theta$ ;

(ii)  $\cos 2\theta$ .

(6)

(Total 7 marks)

- 3.) (a) Show that  $4 - \cos 2\theta + 5 \sin \theta = 2 \sin^2 \theta + 5 \sin \theta + 3$ .

(2)

- (b) Hence, solve the equation  $4 - \cos 2\theta + 5 \sin \theta = 0$  for  $0 \leq \theta \leq 2\pi$ .

(5)

(Total 7 marks)

- 4.) Solve  $\cos 2x - 3 \cos x - 3 - \cos^2 x = \sin^2 x$ , for  $0 \leq x \leq 2\pi$ .

(Total 7 marks)

- 5.) Let  $f(x) = \sin^3 x + \cos^3 x \tan x$ ,  $-\frac{\pi}{2} < x < \frac{\pi}{2}$ .

- (a) Show that  $f(x) = \sin x$ .

(2)

- (b) Let  $\sin x = \frac{2}{3}$ . Show that  $f(2x) = -\frac{4\sqrt{5}}{9}$ .

(5)

(Total 7 marks)

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**Wendy Bosberry-Scott**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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**Pedagogy in a New Tonality** Peter Gouzouasis, 2012-01-01  
This is a book for teachers by teachers from elementary school to university level classrooms. It is about the use of creative instructional strategies in K-12 classroom settings and the transformations the teachers made in their journeys from being traditional practitioners to becoming pedagogical in their approaches to teaching and learning across the curriculum. Over twenty teachers conducted research in their classrooms on the implementation of creative strategies, tactics, graphics, organizers, and visual journals in teaching and learning. They have written their inquiries in a narrative style informed by various forms of arts-based educational research. Their research is approachable and usable by other teachers who are interested in becoming reflective, reflexive practitioners. Many of the strategies, tactics, and graphics organizers are described by Barrie Bennett in his widely used textbook *Beyond Monet: The Artful Science of Instructional Intelligence*. However, through their journeys of becoming teacher-learner researchers, many discovered numerous creative variations of Bennett's work as it was implemented in their classrooms. While there are many professional books that provide ideas on collaborative learning and creative teaching approaches, there is very little published research on the efficacy of these concepts in the K-12 classroom. These inquiries provide practical insights into how inspired teachers can conduct research on improving their own practice as well as on greatly improving their students' learning. Thus, this book has widespread interest for teachers and administrators who seek to implement systemic changes in the ways that teachers teach and children learn in the 21st century.

**Other People's Money** Nomi Prins, 2006-08-01  
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absurdities She demonstrates how the much publicized fraud of recent years resulted from deregulation that trashed the rules of responsible corporate behavior and not simply the unbridled greed of a select few While the stock market roared on the back of phony balance sheets executives made out like bandits and Congress looked the other way Worse yet as the new foreword to the paperback edition makes clear everything remains in place for a repeat performance      **Mathematical Reviews** ,2008      **Popular Science** ,2005-09 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better      **Digest of the Decisions of the Courts of Common Law & Admiralty in the United States: by Theron Metcalf & J.C. Perkins** ,1856      *Resources in Education* ,1984-10      **United States Digest** ,1851      **Reports of Cases Argued and Determined in the Supreme Court of Alabama** Alabama. Supreme Court,1907 Contents Minor s Reports v l Stewart s Reports v 1 3 Stewart and Porter s Reports v 1 5 Porter s Reports v 1 9 Alabama Reports v 1 80      *Mathew Carey, a Bibliography of His Publications, 1785-1824* William Clarkin,1984      **Digest of the Decisions of the Supreme Court of the State of Alabama ...** James Jefferson Mayfield,1901      **Flying Magazine** ,1976-10      **The Encyclopaedia Britannica: Index A to Eng** ,1911      **The Encyclopædia Britannica** ,1911      **Engineering News and American Railway Journal** ,1900

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