

6 It is given that  $\int_1^a \ln(2x) \, dx = 1$ , where  $a > 1$ .

(i) Show that  $a = \frac{1}{2} \exp\left(1 + \frac{\ln 2}{a}\right)$ , where  $\exp(x)$  denotes  $e^x$ . [6]

(ii) Use the iterative formula

$$a_{n+1} = \frac{1}{2} \exp\left(1 + \frac{\ln 2}{a_n}\right)$$

to determine the value of  $a$  correct to 2 decimal places. Give the result of each iteration to 4 decimal places. [3]

7 In a certain country the government charges tax on each litre of petrol sold to motorists. The revenue per year is  $R$  million dollars when the rate of tax is  $x$  dollars per litre. The variation of  $R$  with  $x$  is modelled by the differential equation

$$\frac{dR}{dx} = R\left(\frac{1}{x} - 0.57\right),$$

where  $R$  and  $x$  are taken to be continuous variables. When  $x = 0.5$ ,  $R = 16.8$ .

(i) Solve the differential equation and obtain an expression for  $R$  in terms of  $x$ . [6]

(ii) This model predicts that  $R$  cannot exceed a certain amount. Find this maximum value of  $R$ . [3]

8 (i) By first expanding  $\sin(2\theta + \theta)$ , show that

$$\sin 3\theta = 3 \sin \theta - 4 \sin^3 \theta. \quad [4]$$

(ii) Show that, after making the substitution  $x = \frac{2 \sin \theta}{\sqrt{3}}$ , the equation  $x^3 - x + \frac{1}{6}\sqrt{3} = 0$  can be written in the form  $\sin 3\theta = \frac{3}{4}$ . [1]

(iii) Hence solve the equation

$$x^3 - x + \frac{1}{6}\sqrt{3} = 0,$$

giving your answers correct to 3 significant figures. [4]

9 Let  $f(x) = \frac{x^2 - 8x + 9}{(1-x)(2-x)^2}$ .

(i) Express  $f(x)$  in partial fractions. [5]

(ii) Hence obtain the expansion of  $f(x)$  in ascending powers of  $x$ , up to and including the term in  $x^2$ . [5]

10 The line  $l$  has equation  $\mathbf{r} = 4\mathbf{i} - 9\mathbf{j} + 9\mathbf{k} + \lambda(-2\mathbf{i} + \mathbf{j} - 2\mathbf{k})$ . The point  $A$  has position vector  $3\mathbf{i} + 8\mathbf{j} + 5\mathbf{k}$ .

(i) Show that the length of the perpendicular from  $A$  to  $l$  is 15. [5]

(ii) The line  $l$  lies in the plane with equation  $ax + by - 3z + 1 = 0$ , where  $a$  and  $b$  are constants. Find the values of  $a$  and  $b$ . [5]

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**Terry C. Jones**



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