(i) Show that
$$\alpha = \frac{1}{2} \exp\left(1 + \frac{\ln 2}{\alpha}\right)$$
, 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.

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

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

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

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

(i) By first expanding sin(28+8), show that

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

[6]

[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 $\sin 3\theta = \frac{3}{4}$. E13

(iii) Hence solve the equation

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

giving your answers correct to 3 significant figures.

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

(i) Express f(x) in partial fractions. 151

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

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

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

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

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