1. The equation $3x^2 - 4x - 3e^{-x} = 0$ has exactly one real root.

(a) Differentiate $f(x) = 3x^2 - 4x - 3e^{-x}$

(2)

(b) Explain why the maximum point of $f(x)$ cannot be found by setting your answer to part (a) to 0.

(1)

(c) Use your answer to part (a) to show how that the Newton Raphson formula can be written in the form,

$$x_{n+1} = \frac{3x_n^2 + 3(x_n + 1)e^{-x_n}}{6x_n - 4 + 3e^{-x_n}}$$

(3)

(d) Using $x_1 = 2$ and the formula given in part (a), find the values of x_2, x_3 and x_4

(3)

(e) State an approximation for the root to 3 decimal places.

(1)

2. Relative to a fixed origin, O, the position vectors A, B and C are,

$$A: (a\mathbf{i} + \sqrt{2}\mathbf{j} + 5\mathbf{k}) \qquad B: (2\mathbf{i} - 3\mathbf{j} - 4\mathbf{k}) \qquad C: (b\mathbf{i} + 3\mathbf{j} - 2\mathbf{k})$$

Where a and b are constants and $a > 0$ and $b < 0$

Given that, $|\overrightarrow{OA}| = 6$

(a) Find the value of a.

(3)

(b) D is the position vector such that $\overrightarrow{AB} = \overrightarrow{BD}$

Find the position vector D.

(2)

(c) Given $|\overrightarrow{BC}| = 7$, find the value of b.

(2)

A Level Maths Past Paper

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