

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,
- $$A: (ai + \sqrt{2}j + 5k) \quad B: (2i - 3j - 4k) \quad C: (bi + 3j - 2k)$$
- 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)

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