

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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