

Assignment B: Mathematical Investigation

Numerical methods offer an approximation of solutions to mathematical problems where the analytical methods of solutions may not exist and the information available does not admit direct use of the existing analytical methods.

One of the advantages of a numerical method is that it allows problems with limited analytical solution to be solved. However, the limitations for those methods to work properly require certain condition(s).

In computational mathematics, an iterative method is a mathematical procedure that uses initial value(s) to generate a sequence of improving approximate solutions, in which the n^{th} approximation is derived from the previous ones. The method is said to be convergent if the corresponding sequence converges for given initial approximation(s). One of the applications of iterative methods is to determine the point of intersection(s) for intersecting curves, which can sometimes be difficult to obtain. Determining the point of intersection(s) is important in the process of evaluating the area and volume of a bounded region. Hence, the aim of this assignment is to illustrate the use of iterative methods in finding the point of intersection(s).

Task 1:

Given that $2x^2 - x + e^{2x} - 3 = 0$.

- (a) Rearrange the above equation as $f(x) = g(x)$, where f and g are functions of x . Sketch the graphs of the functions on the same coordinates axes. Hence, show that the equation has two real roots.
- (b) Repeat (a) with two other different combinations of functions.
- (c) State the intervals where those roots exist.
- (d) Verify the existence of the real roots in the intervals.

Task 2:

(a) Use suitable initial approximation(s) for each of the following iterative method to find one of the real roots of the equation $2x^2 - x + e^{2x} - 3 = 0$ correct to four significant figures.

- (i) Newton-Raphson method,
- (ii) Fixed-point iteration method,
- (iii) Secant method,
- (iv) Bisection method.

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