

a3task3.pdf

The bisection method, a bracketing method, took 5, 11, and 11 iterations for the respective tolerance levels of 0.1, 0.001, and 0.00001. Whereas the Newton-Raphson method, an open method, only took 2, 3, and 3 iterations for the same tolerances. Therefore, it would appear that the bisection method takes a greater number of iterations to achieve the same accuracy as compared to the Newton-Raphson method.