

Q.1 D:

The newton method is computed

['+', 0, '.', 7, 0, 7, 1, 0, 6, 7, 8, 1, 1, 8, 6, 5, 4, 7, 5, 2, 4, 4, 0, 0, 8, 4, 4, 3, 6, 2, 1, 0, 4, 8, 4, 9, 0, 3, 9, 2, 8, 4, 8, 3, 5, 9, 3, 7, 6, 8, 8, 4, 7]

This calculation took though approximately 20 minutes due to the large growth in the two values of multiplication.

From this we can compare it to a computation off google that calculates it to 50 decimal places.

From this we can see that values of the computation are the same, so it is correct to 50 decimal places or 50 significant figures.

0.70710678118654752440084436210484903928483593768847