NewtonBisection(1.9,30,42,fun,dfun)

k ----- xk ------- f(xk) ------ Step Type

1 6.486272 0.200169 Newton

2 18.243136 -0.569930 Bisection

3 12.364704 -0.200307 Bisection

4 9.425488 -0.000790 Bisection

5 7.955880 0.994462 Bisection

6 8.690684 0.669747 Bisection

7 9.058086 0.358413 Bisection

8 9.241787 0.181875 Bisection

9 9.333637 0.090926 Bisection

10 9.424950 -0.000253 Newton

11 9.379294 0.045384 Bisection

12 9.424729 -0.000031 Newton

13 9.402011 0.022682 Bisection

14 9.424701 -0.000004 Newton

15 9.413356 0.011340 Bisection

16 9.424698 -0.000000 Newton

17 9.419027 0.005670 Bisection

18 9.424697 -0.000000 Newton

19 9.421862 0.002835 Bisection

20 9.424697 -0.000000 Newton

21 9.423280 0.001417 Bisection

22 9.424697 -0.000000 Newton

23 9.423988 0.000709 Bisection

24 9.424697 -0.000000 Newton

25 9.424343 0.000354 Bisection

26 9.424697 -0.000000 Newton

27 9.424520 0.000177 Bisection

28 9.424697 -0.000000 Newton

29 9.424609 0.000089 Bisection

30 9.424697 -0.000000 Newton

31 9.424653 0.000044 Bisection

32 9.424697 -0.000000 Newton

33 9.424675 0.000022 Bisection

34 9.424697 -0.000000 Newton

35 9.424686 0.000011 Bisection

36 9.424697 -0.000000 Newton

37 9.424692 0.000006 Bisection

38 9.424697 -0.000000 Newton

39 9.424694 0.000003 Bisection

40 9.424697 -0.000000 Newton

41 9.424696 0.000001 Bisection

42 9.424697 0.000001 Bisection