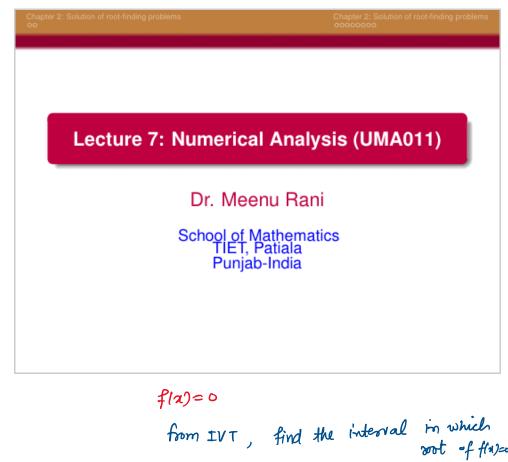
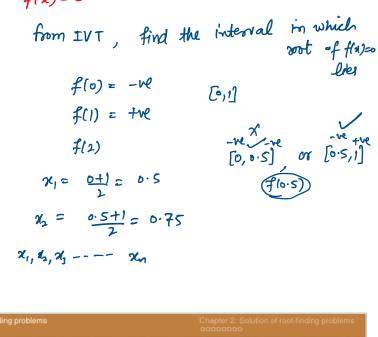
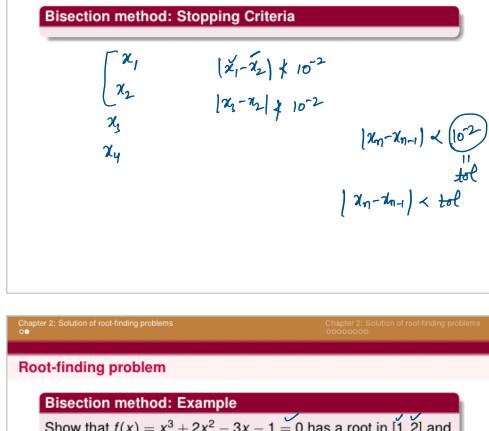
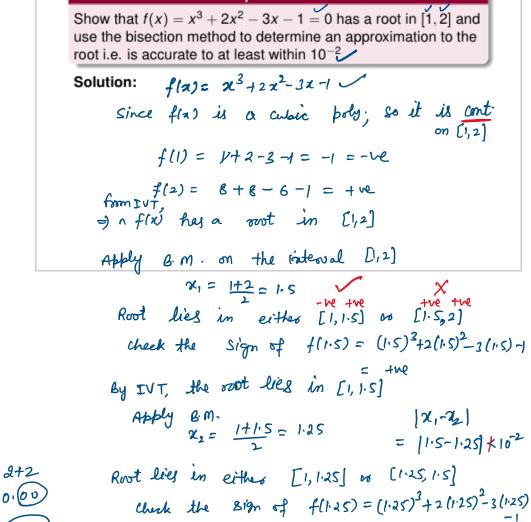
Lecture-7 Tuesday, August 9, 2022 6:49 PM Lecture-7 Chapter 2: Solution of root-finding problems



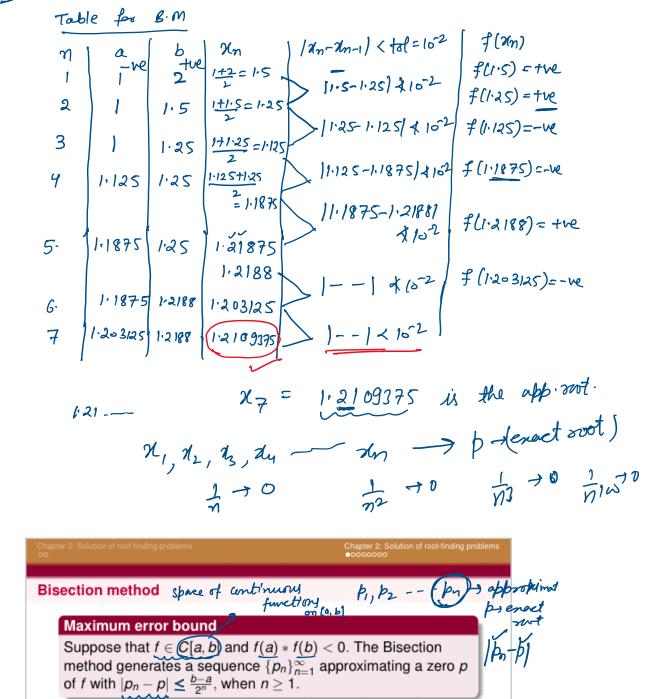


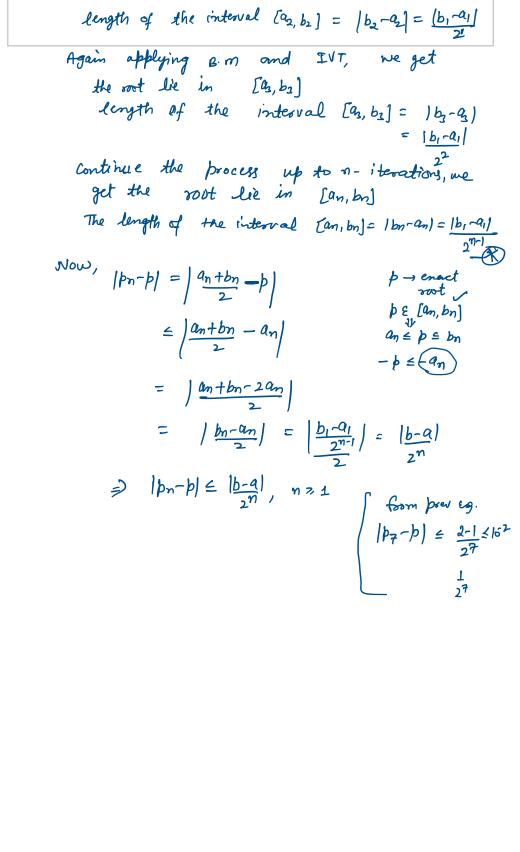


Root-finding problem



BY IUT, the not let in [1, 1.25] = +ve





Proof: from IVT, Let f(n) has

a mot in [a,b]

length of the interval is [b-a] = 11 a

After applying bisection method and IVT, we get the root lie in [9, 12] (say)