Exercise 8 Problem 3 Using Newton's method for minimization Boundary condition X0=0 Known variables (fco) 457 f(0) 4 (0) 7 f()max)) mex f'(). (\(\lambda \) = F"() First :teration creates maximum step, the following steps form a geometric Series First iteration: X 1 = 20 - A 20 = \max Second iteration; $\lambda_2 = \lambda_1 - \frac{f'(\lambda_1)}{f''(\lambda_1)}$ = > max = f'(> max) Factor in geometric series q = 3 × 1 = f (/ hmex) Som of geometric series results into minimum point ix λmax a 1-9 1+ F'(\lambdamax) \lambdamax



