Duckton 1 the electere Field to gover by E= 0 ph (7-RCOSO)(211R8h0) RdO 4x8000 (22+22-22RCOSO)3/2 he let X = coso St. 8=0=> X=1 dx = Sho do $f(x) = (2 - Rx) - (2 + R^2 - 2x + R)^3/2$

Quastion 2 With the lary integrator, there are \(\frac{N}{2}\) (2 nt) ti) function calls. With the efficient integrator There are I't' function calls Assuming N=50