1. Find the global minimum point and value for the function $f(x) = x^4 + 3x^2 + 10$

-> Manual calculations for two "iterations

let x=2; n=0.01 (leaving rate)

for a Pteration

$$\frac{\partial f(x)}{\partial x} \Big|_{x=2} = 4(2)^3 + 6(2)$$
= 32+12=44

for a Pteration

The procedure is repeating until gradient is near to zero.