Assignment - 3 manual calculations Given & Gradient obscart

Fen) = ny + zn2 + 10 option 100% step 1: 7=0.1, iteration = 2 2=2 $m = \frac{df}{dx} |_{x=9}$ 4x3+6x=4(2)+6(2) = 4(8)+12 iteration = 1 = 32 +12 - 44 step 2 1 Ax = -0.1(44) = -1 (44) iteration = iteration+1=2 x = 2-4.4 = -2.4 if (2>2) ¿ else 7=0.1, Z=-2.4 m = 4(-2.4)+6(-2.4) $\Delta \chi = -0.1(-24)$ - 6.96 iteration-OTE 8 PRO X = -2.4+ 6.96= 4.56 CAMERAteration = 2+1=3 ? F(372) 11 condition is careified

print x = 4.56 = 4.6 $f(x) = (4.6)^4 + 3(4.6)^2 + 18$ f(x) = 521.22 = 6The optional solution by the manual calculation f(x) = 521.22 = 6