Hssignment - 3 f(x)=3x2+5e-4+10 Iteration 1: D'choose initial value for x, y and m x=2, y=3 and n=0.01. 2) Find graduent at x=2 i.e at(x,y) x=2 = 6(2) = 12= 6(2) = 123) Find gradient at y = 3? re  $\partial f(x,y) |_{y=3}$ = -5e-4  $= -5e^{-3} = -5 \times 0.0497$ 4) As gradient not near to zero, calculate step length Ax = -0.01x12 = -0.12 Dy = -0.01\* (-0.2489) = 0.002489 3) Update x value as x=2-0.12=1.88 and y = 3 + 0.002489 = 3.002489 This procedure is repeating untill gradient Ps near to gero for the next feration x = 1.88 and y = 3.002489.