Assignment - 3

- Manual calculation for france 3x2+5e+10
- · Change initial value for 2,4 and n 19t 2=2, 4=2 and n=0.001.
 - · (2 radient at x=2, => 6x2=12
- · Cradient at y=2,=) -5e =-0.67667.

 $\Delta x = -0.001 \times 12 \quad \Delta y = -0.001 \times -0.67667$ $= -0.012 \quad -6.7667 \times 10^{-4}$

 $y = 2 + .6.7667 + 10^{-4} = 2.000676$

Iteration - 2

Cradient at x= 1.988 -> 1.988x2 = 11.928 Erradient at y= 2.000676 = 0.676 219.

_ Ax = -0.001 x 11.928 A = -0.011928

7= 1.988-0.011928

x = 1.9760

Dy = -0.001 x '-0.676719

= ·6.76219 × 10 4

42 2.000676+61762 x10 4

z 2.0013436.