Pandit Deendayal Petroleum University

School of Technology

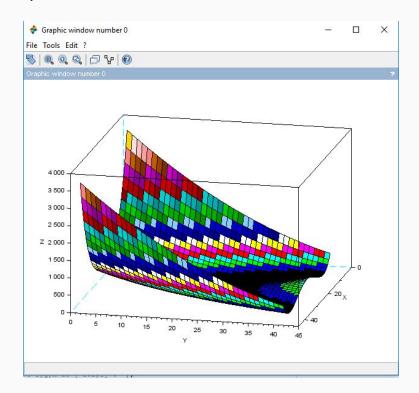
ICT Department

Artificial Intelligence, BTech ICT Sem VI

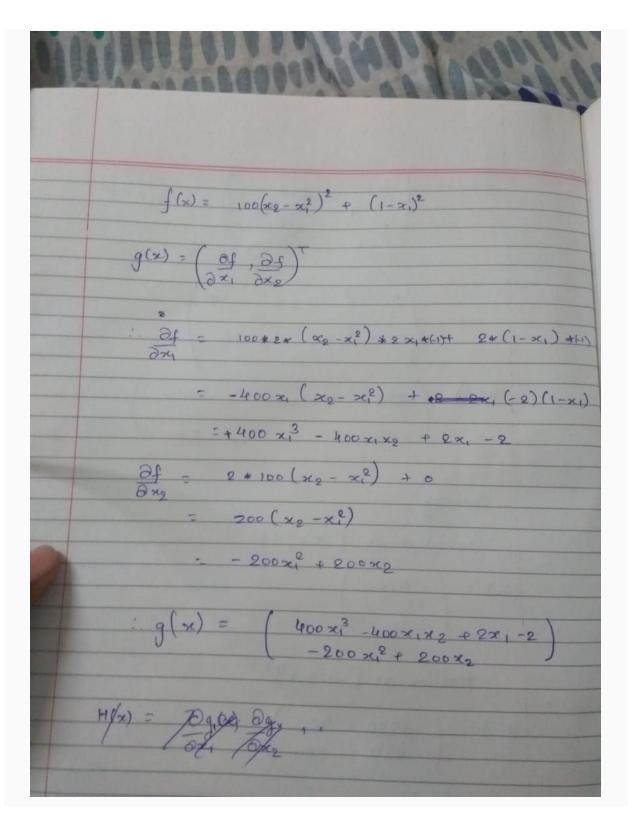
Name of the student : Dirgh Kotharia

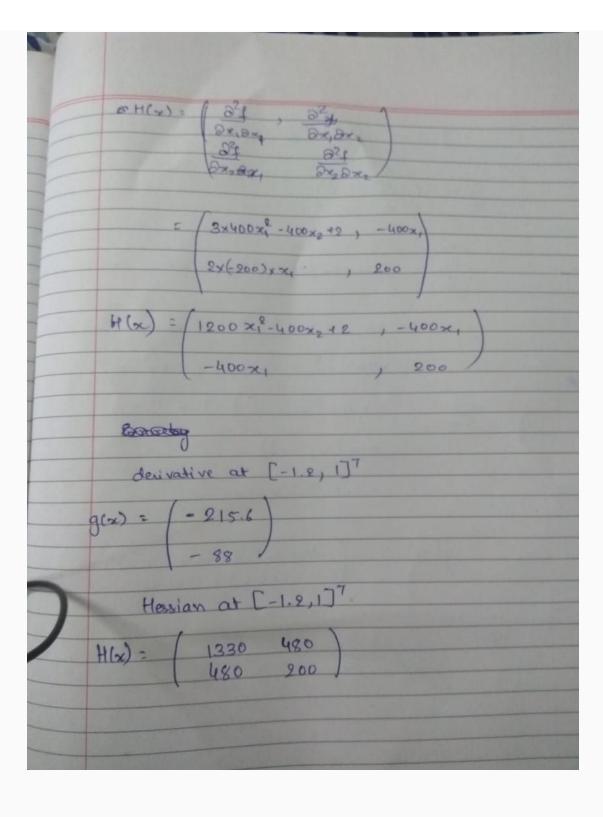
Student ID: 16BIT025

Plot Of The Graph



Ans 1 and 2)





Ans 3)

```
x Scilab 6.0.1 Console

value of f,g,h at [-1.2,1] :
    24.2

value of f,g,h at [1,1] :
    0.

pc Num-Derivative of G at [-1.2,1] :
    -215.6 -88.

Num-Derivative of H at [-1.2,1] :
    1330. 480. 480. 200.
```

Ans 4)

The numderivative function returns the same value as of computed on paper as well as by the Rosenbrock.