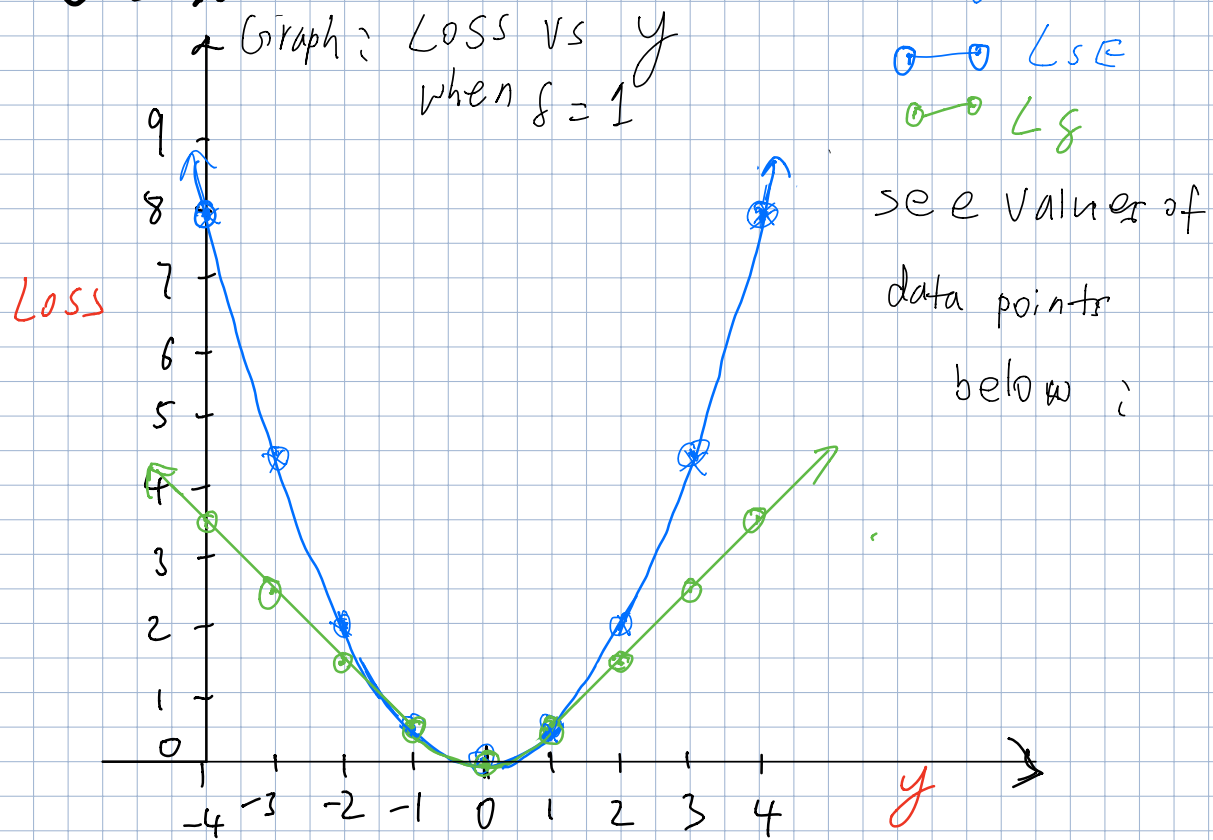


Assignment 2

Q 1 a)



Values Calculated :

$$L_{SE}(y, t=0) = \frac{1}{2}y^2$$

y	L_{SE}
-4	8
-3	4.5
-2	2

Assume $\delta = 1$

$$L_{\delta}(y, t) = \begin{cases} \frac{1}{2}y^2 & \text{if } |y| \leq 1 \\ |y| - \frac{1}{2} & \text{if } |y| > 1 \end{cases}$$

$t = 0$
 $\delta = 1$

y	L_{δ}
-4	3.5
-3	2.5

-1	0.5
0	0
1	0.5
2	2
3	4.5
4	8

-2	1.5
-1	0.5
0	0
1	0.5
2	1.5
3	2.5
4	3.5