$$w^{(1)} = (-1, -1, -1)$$
 $b^{(1)} = 0.5$

$$\frac{2.0}{x \rightarrow z \rightarrow h \rightarrow y \rightarrow s \rightarrow \epsilon}$$

$$\overline{Y} = \overline{S} - (y - S) = y - S$$

3. <u>JL</u> Yes, <u>Jus</u> No. Since the meaning of LL is that the measure in change of L when we make an infinitesimal change to wi while keeping others fixed. So, if we make an infinitesimal change to w1, the L will not change since w1 x output of h1 is always equal to O based on the Relu activation function. If we make infinitesimal change to Wz, the Wz x output of his is still close to -1, the output of h, is still 0. So there is no change to L. However, if we make an infinitesimal change to W3, it might change y since we don't know the activation function of he and he and he is connected to he as vel. So hased on this case, L may change.