

I WANT TO FIND WEIGHTS AND BIASES S.T.

5 UNKNOWN, 4 EQ.S.

$$\begin{cases} w_1 + w_2 - b > 0 \\ w_3 + w_4 - b > 0 \\ w_1 + w_3 - b < 0 \\ w_2 + w_4 - b < 0 \end{cases}$$

- $w_1 > b - w_2$

- $w_1 + w_3 - b < 0$

$$\cancel{b} - w_2 + w_3 - \cancel{b} < w_1 + w_3 - b < 0$$

$$w_3 - w_2 < w_1 + w_3 - b < 0$$

$$w_3 - w_2 < 0 \Rightarrow w_3 < w_2$$

- $w_2 + w_4 - b < 0$

$$w_3 + w_4 - b < w_2 + w_4 - b < 0$$

$$w_3 + w_4 - b < 0$$

BUT I WANT THAT $w_3 + w_4 - b > 0$

\Rightarrow IMPOSSIBLE

THX TO LORENZO FOR THE SOLUTION