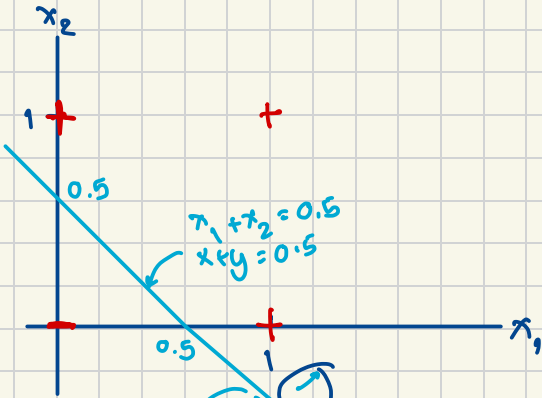


Neural Network #2

Kou Final 9/12 9.00-11.00 open book + calculator



OR-Table

x_1	x_2	target
0	0	-
0	1	+
1	0	+
1	1	+

$$y = mx + c$$

$$y = (-1)x + c$$

$$y = -x + c$$

$$x + y = c$$

$$x_1 + x_2 = 0.5$$

$$-0.5 + x_1 + x_2 > 0$$

$$-0.5 + 0 + 0 > 0$$

F false ⊖

$$-0.5 + 0 + 1 > 0$$

T true ⊕

$$-0.5 + 1 + 0 > 0 \text{ (T)}$$

$$-0.5 + 1 + 1 > 0 \text{ (T)}$$

$$0.5 - x_1 - x_2 > 0$$

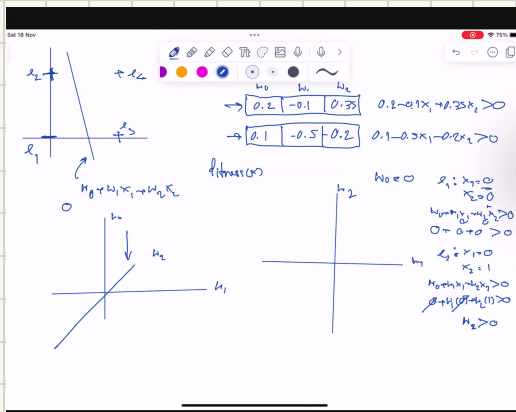
$$0.5 - 0 - 0 > 0 \text{ T } \oplus$$

$$0.5 - 0 - 1 > 0 \text{ F } \ominus$$

$$0.5 - 1 - 0 > 0 \text{ F } \ominus$$

$$0.5 - 1 - 1 > 0 \text{ F } \ominus$$

$$\vec{w} = \begin{bmatrix} -0.5 \\ 1 \\ 1 \end{bmatrix}$$



$$w_0 + w_1x_1 + 3(1) > 0$$

ทำให้ classify เป็น +

perceptron training rule

กรณี เป็นตัวบ่งบอกค่า
 ————— ลงบน
 $\vec{w} \cdot \vec{x} < 0 \rightarrow \vec{w} + \eta \vec{x}$
 $\vec{w} \cdot \vec{x} > 0 \rightarrow \vec{w} - \eta \vec{x}$ } ปรับ height

