recreption

= Wot x W4 + x2 W2

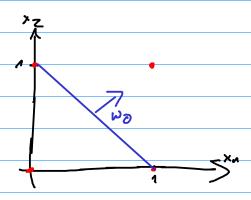
$$W_{1} \times_{1} + W_{2} \times_{2} + W_{0} = \emptyset$$

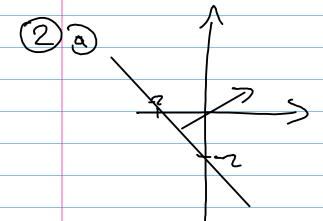
$$X_{1} = - \times_{2} + \frac{W_{2}}{W_{1}} - \frac{\omega_{0}}{W_{1}}$$

$$X_{2} = - \times_{2} + \frac{0.5}{0.5} - \frac{0.5}{0.5}$$

$$X_{3} = - \times_{3} + 1$$

$$X_{4} = - \times_{4} + 1$$

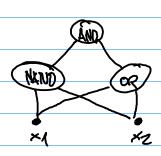




B

- b) Welche der folgenden Perzeptrons haben die selbe Trennebene? Welche weisen exakt die gleiche Klassifikation auf?
 - $\begin{array}{l} \bullet \ \ (w_0,w_1,w_2)^T = (1,0.5,0.5)^T \\ \bullet \ \ (w_0,w_1,w_2)^T = (200,100,100)^T \\ \bullet \ \ (w_0,w_1,w_2)^T = (\sqrt{2},\sqrt{1},\sqrt{1})^T \\ \bullet \ \ (w_0,w_1,w_2)^T = (-2,-1,-1)^T \\ \end{array}$





$$W_{NAND} = \begin{bmatrix} 1.5 \\ -1 \end{bmatrix}$$

$$W_{OR} = \begin{bmatrix} -0.5 \\ 1 \end{bmatrix}$$

$$W_{ANO} = \begin{bmatrix} -x_1 5 \end{bmatrix}$$

