

$$\textcircled{1} \quad (w_0, w_1, w_2) = (2, 1, 1)$$

$$1. \quad w_0 \cdot 1 + w_1 \cdot x_1 + w_2 \cdot x_2 \\ 2 \cdot 1 + 1 \cdot x_1 + 1 \cdot x_2 \\ 2 + x_1 + x_2 = 0$$

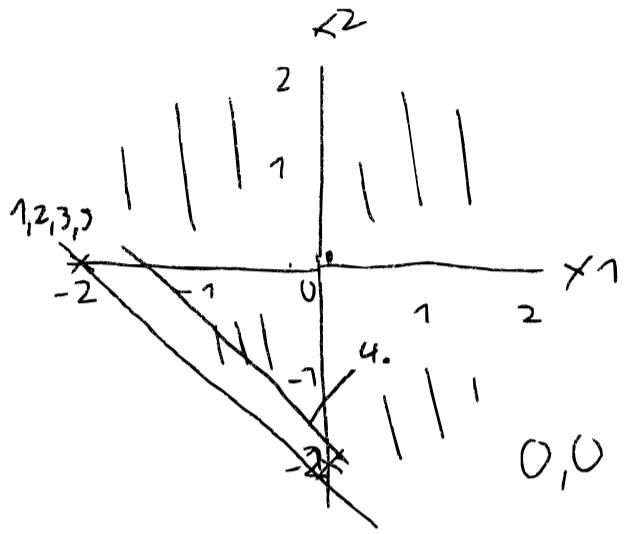
$$\begin{aligned} x_1 &= 0 & x_2 &= -2 \\ x_2 &= 0 & 0 &= -x_1 - 2 \mid +x_1 \\ 2 &= -x_1 & 1 &= -1 \\ -2 &= x_1 \end{aligned}$$

$$x_2 = -x_1 - 2$$

Summe > 0 Klasse +1

Summe 0 - Gute

< 0 Klasse -1



$$2. \quad 1; 0,5, 0,5 \Rightarrow 1 + 0,5 \cdot x_1 + 0,5 \cdot x_2 \mid .2 \\ 2 + x_1 + x_2 = 1.$$

$$3. \quad 200 \quad 100 \quad 700 \Rightarrow 1.$$

$$4. \quad \sqrt{2} \quad \sqrt{1} \quad \sqrt{1} \quad 1,41 + 1 \cdot x_1 + 1 \cdot x_2 = 0 \\ 1,41 + x_1 + x_2 \mid -x_1 - 1,41 \\ x_2 = -x_1 - 1,41$$

$$5. \quad -2 \quad -1 \quad -1 \quad -2 - x_1 - x_2 = 0 \mid +x_2 \\ -x_1 - 2 = x_2 = 1. \quad x_2 = -1,41 \\ x_1 = -1,41$$

x

x1

