

$$① (w_0, w_1, w_2) = (2, 1, 1)$$

$$1. w_0 \cdot 1 + w_1 \cdot x_1 + w_2 \cdot x_2$$

$$2 \cdot 1 + 1 \cdot x_1 + 1 \cdot x_2$$

$$2 + x_1 + x_2 = 0$$

$$x_2 = -x_1 - 2$$

$$x_1 = 0$$

$$x_2 = -2$$

$$x_2 = 0$$

$$0 = -x_1 - 2 \quad | +2$$

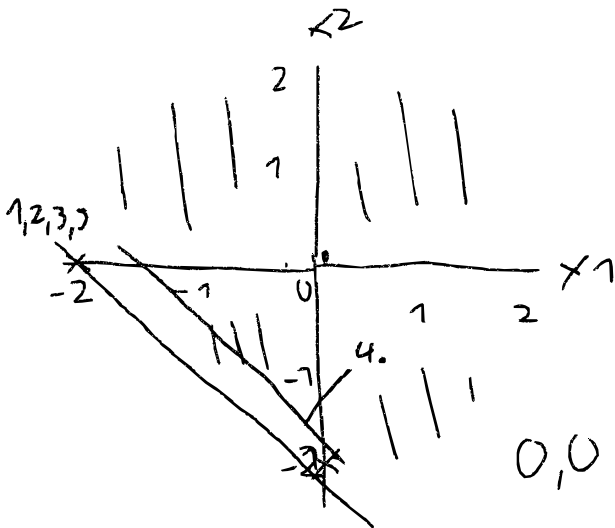
$$2 = -x_1 \quad | \cdot -1$$

$$\underline{-2 = x_1}$$

Summe > 0 Klasse 1

Summe 0 - Güte

< 0 Klasse -1



$$2. 1, 0, 5, 0, 5 \Rightarrow 1 + 0,5 \cdot x_1 + 0,5 \cdot x_2 \quad | \cdot 2$$

$$2 + x_1 + x_2 = 1$$

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

$$4. \sqrt{2} \quad \sqrt{1} \quad \sqrt{1}$$

$$1,41 + 1 \cdot x_1 + 1 \cdot x_2 = 0$$

$$1,41 + x_1 + x_2 \quad | -x_1 - 1,41$$

$$x_2 = -x_1 - 1,41$$

$$5. -2 \quad -1 \quad -1 \Rightarrow -2 - x_1 - x_2 = 0 \quad | +x_2$$

$$\underline{-x_1 - 2 = x_2 = 1}$$

$$x_2 = -1,41$$

$$x_1 = -1,41$$

x

x1

