



$$H_1 = w_{11}^1 x_1 + w_{21}^1 x_2 \quad \text{out } H_1 = \tanh(H_1)$$

$$H_2 = w_{12}^1 x_1 + w_{22}^1 x_2 \quad \text{out } H_2 = \tanh(H_2)$$

$$y = w_{11}^2 \underset{\text{out}}{H_1} + w_{12}^2 \underset{\text{out}}{H_2} \quad \text{out } y = \sigma(y)$$