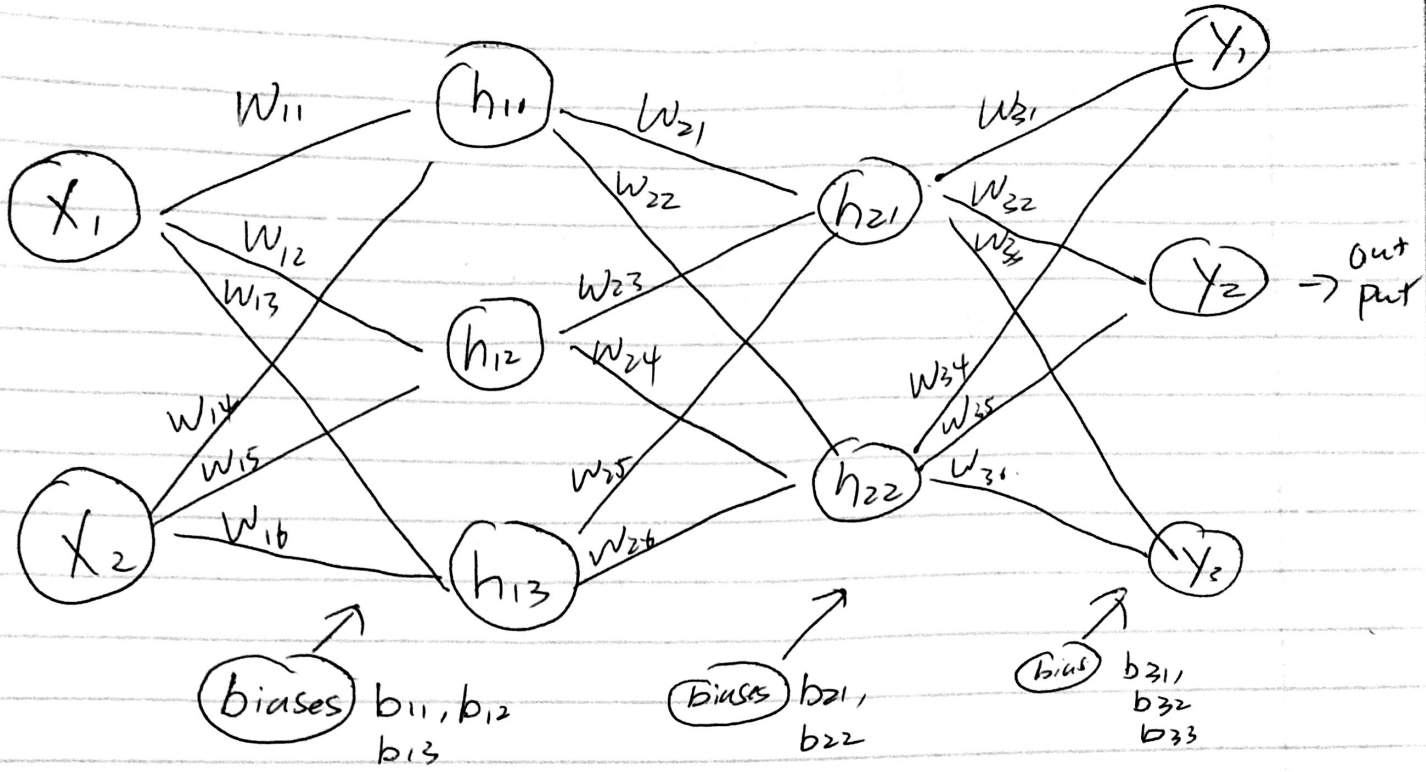
1.1



1.2

$$h_{11} = \max(W_{11} \cdot X_1 + W_{14} \cdot X_2 + b_{11}, 0)$$

$$h_{12} = \max(W_{12} \cdot X_1 + W_{15} \cdot X_2 + b_{12}, 0)$$

$$h_{13} = \max(W_{13} \cdot X_1 + W_{16} \cdot X_2 + b_{13}, 0)$$

$$b_{21} = \max(W_{21} \cdot h_{11} + W_{23} \cdot h_{12} + W_{25} \cdot h_{13} + b_{21}, 0)$$

$$h_{22} = \max(W_{22} \cdot h_{11} + W_{24} \cdot h_{12} + W_{26} \cdot h_{13} + b_{22}, 0)$$

Output probabilities =

$$\text{Softmax}\left(\left[W_{31} \cdot h_{21} + b_{31} + W_{35} \cdot h_{22},\ W_{32} \cdot h_{21} + W_{35} \cdot h_{22} + b_{32},\ W_{33} \cdot h_{21} + W_{36} \cdot h_{22} + b_{33}\right]\right)$$