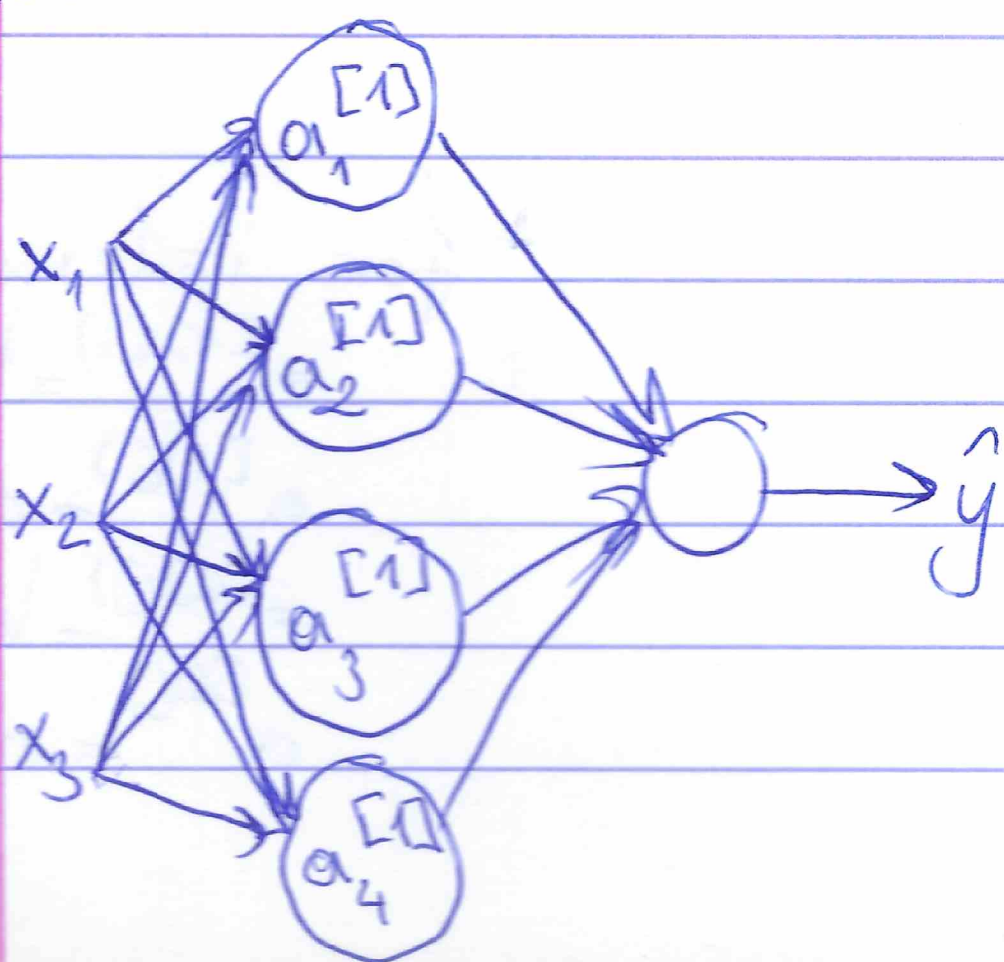
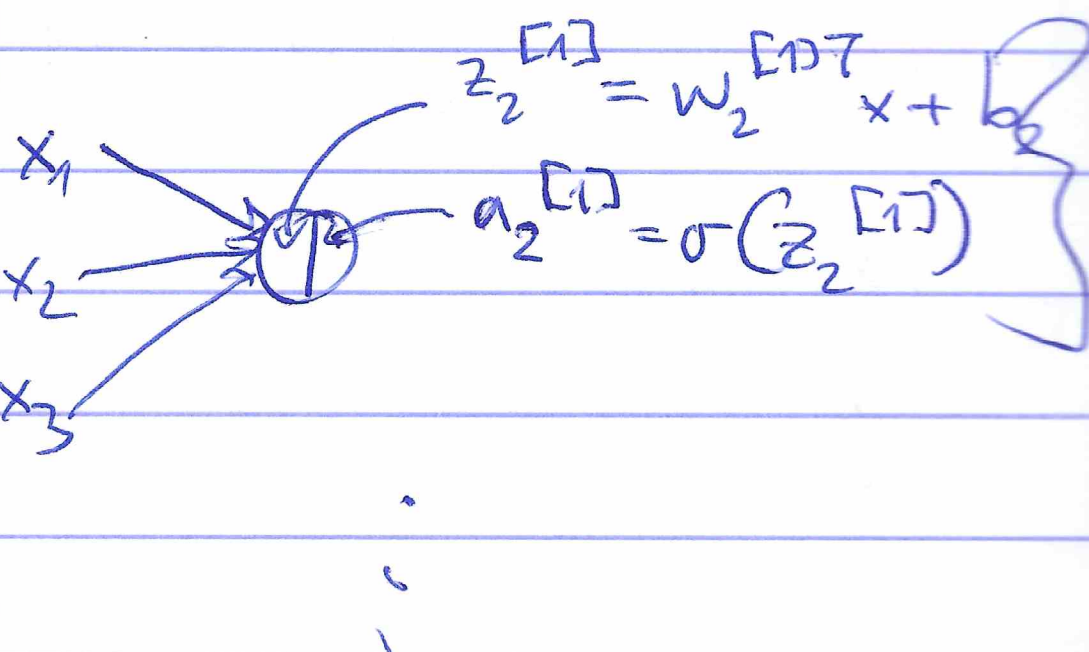
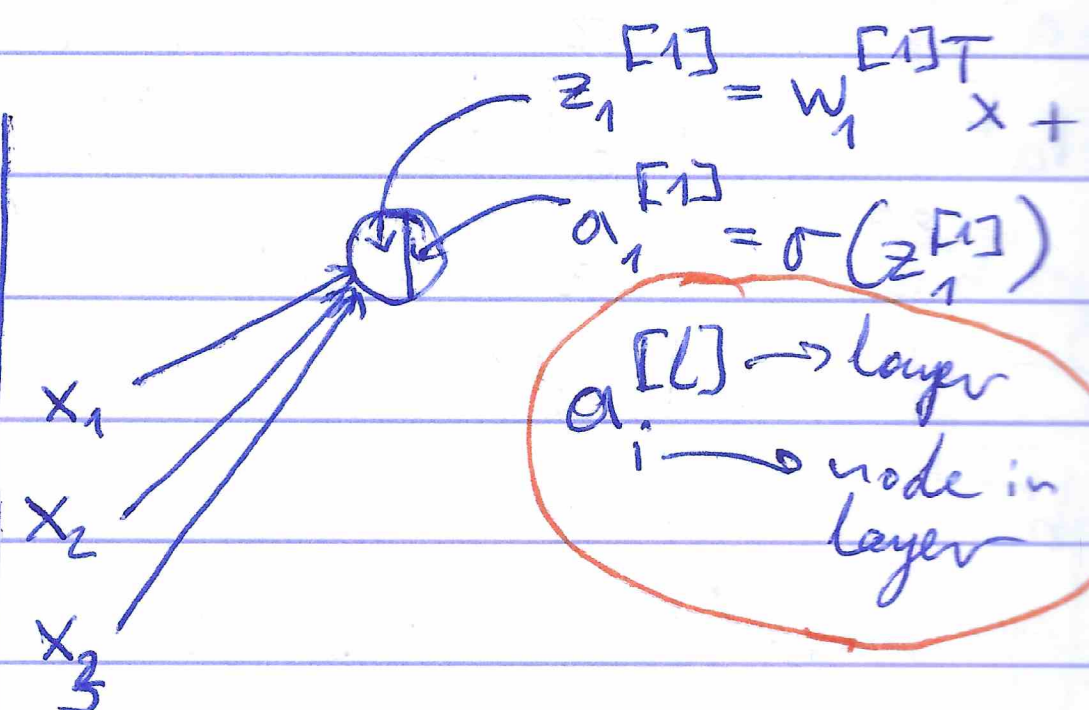
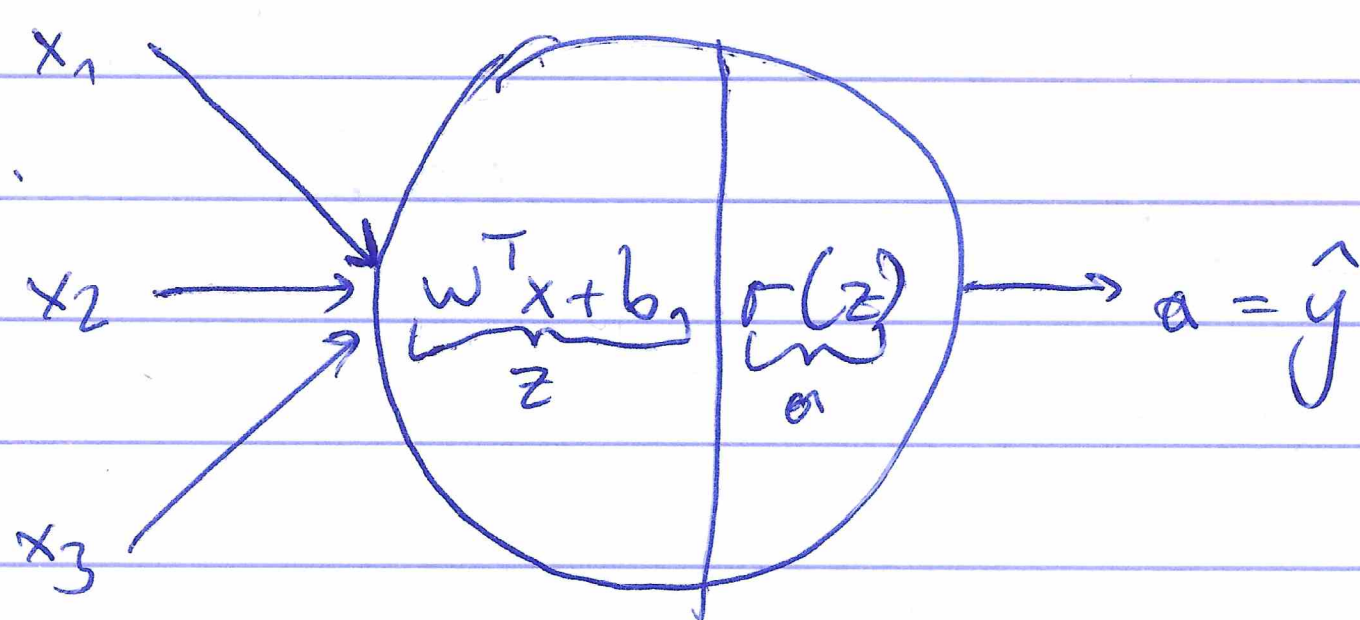


Computing a NN's Output



$$\begin{aligned}
 z_1^{[1]} &= (w_1^{[1]})^T x + b_1^{[1]}, & a_1^{[1]} &= \sigma(z_1^{[1]}) \\
 z_2^{[1]} &= (w_2^{[1]})^T x + b_2^{[1]}, & a_2^{[1]} &= \sigma(z_2^{[1]}) \\
 z_3^{[1]} &= (w_3^{[1]})^T x + b_3^{[1]}, & a_3^{[1]} &= \sigma(z_3^{[1]}) \\
 z_4^{[1]} &= (w_4^{[1]})^T x + b_4^{[1]}, & a_4^{[1]} &= \sigma(z_4^{[1]})
 \end{aligned}$$