One—layer NN activation function

$$\int_{A_i}^{A_i} \int_{A_i}^{A_i} \int_{A_i}$$

Input Laxer Output

(k)
$$\longrightarrow$$
 (h) \longrightarrow (y)

$$h = f_1(\times w^{(1)} + b^{(1)})$$

$$Y = f_2(h w^{(2)} + b^{(2)})$$

plug h into y,

$$Y = f_2 \left(f_1(xw^{(i)} + b^{(i)}) w^{(i)} + b^{(i)} \right)$$

Usually $f_1 = f_2$. Now, what $f_1(x) = f_2(x) = x$?

More two-layer NNs

$$h_{1} = f(x_{1}W_{11}^{(1)} + x_{2}W_{21}^{(1)} + b_{1}^{(1)})$$

$$h_{2} = f(x_{1}W_{12}^{(1)} + x_{2}W_{21}^{(1)} + b_{2}^{(1)})$$

$$Y = f(h_{1}W_{1}^{(2)} + h_{2}W_{2}^{(2)} + b^{(2)})$$

plug hi, hz into y