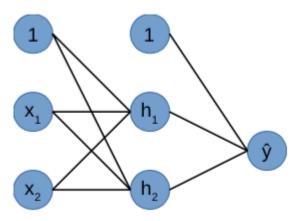
## 5 Neural network

(5%) Suppose you are given the following neural network (flowing left to right) and param- eters, which uses ReLU activation in every layer and the loss is the squared error  $L = (y - y')^2$ .

Weights for the first layer (start from bias)  $W_1 = \begin{bmatrix} 1 & 1 & 2 \ 1 & 2 & 4 \end{bmatrix}$ 

Weights for second layer (start from bias)  $W_2 = [ egin{array}{ccc} 1 & 1 & 2 \end{array} ]$ 



What is the loss value (squared loss) for the input x = (2 4) and y = 26

Nullstill

Maks poeng: 6

 $\frac{1}{2}$ 

.

1

2

3

4

5

6

7

8

9

1(



All lecture slides