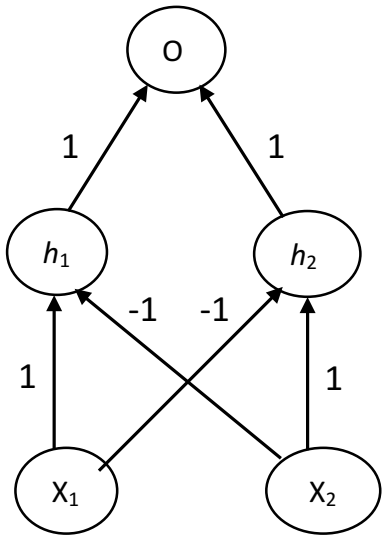
Output layer:

Hidden layer:

Input layer:



repeat
  for each e **in** *examples* **do**
    for each node j in the input layer **do** $a_j \leftarrow x_j[e]$
    for $\ell = 2$ **to** M **do**
      $in_i \leftarrow \sum_j W_{j,i}\, a_j$
      $a_i \leftarrow g(in_i)$
    for each node i in the output layer **do**
      $\Delta_i \leftarrow g'(in_i) \times (y_i[e] - a_i)$
    for $\ell = M - 1$ **to** 1 **do**
      for each node j in layer ℓ **do**
        $\Delta_j \leftarrow g'(in_j) \sum_i W_{j,i}\, \Delta_i$
        for each node i in layer $\ell + 1$ **do**
          $W_{j,i} \leftarrow W_{j,i} + \alpha \times a_j \times \Delta_i$
until some stopping criterion is satisfied

Sigmoid activation function
Learning rate 0.7
Fill in the table independently of prior weight adjustments
https://www.tinkershop.net/ml/sigmoid_calculator.html

XOR FFNet

X1	X2	y	h_1	h_2	h'_1	h'_2	O	O'	E	$\Delta w_{h1\text{-}O}$	$\Delta w_{h2\text{-}O}$	$w_{h1\text{-}O}$	$w_{h2\text{-}O}$
0	**0**	0	0.5	0.5	0.25	0.25	0.7310	0.1966	-0.1437	-0.0503	-0.0503	0.9496	0.9496
0	**1**	1	0.2689	0.7310	0.1966	0.1966	0.7310	0.1966	0.0528	0.0099	0.0270	1.0099	1.0270
1	**0**	1	0.7310	0.2689	0.1966	0.1966	0.7310	0.1966	0.0528	0.0270	0.0099	1.0270	1.0099
1	**1**	0	0.5	0.5	0.25	0.25	0.7310	0.1966	-0.1437	-0.0503	-0.0503	0.9796	0.9796

X1	X2	E_{h1}	E_{h2}	$\Delta w_{x1\text{-}h1}$	$\Delta w_{x1\text{-}h2}$	$w_{x1\text{-}h1}$	$w_{x1\text{-}h2}$	$\Delta w_{x2\text{-}h1}$	$\Delta w_{x2\text{-}h2}$	$w_{x2\text{-}h1}$	$w_{x2\text{-}h2}$
0	**0**	-0.0359	-0.0359	0	0	1	-1	0	0	-1	1
0	**1**	0.0103	0.0103	0	0	1	-1	0.0072	0.0072	-0.9927	1.0072
1	**0**	0.0103	0.0103	0.0072	0.0072	1.0072	-0.9927	0	0	-1	1
1	**1**	-0.0359	-0.0359	-0.0251	-0.0251	0.9748	-1.0251	-0.0251	-0.0251	-1.0251	0.9748