

Multi-Layer Perceptron (MLP)

☐ Hide Answers

v1

Input Layer

X1	X2
2	-1
1	1
2	1
1	2

Hidden Layer 1

W1		b1				↓	↓	ReLU		
1	0	-1	1	1	→	2	1	~	2	1
0	1	1	0	1	→	4	3	~	4	3
1	-1	0	0	0	→	1	-2	~	1	0
									1	1

Hidden Layer 2

W2		b2			↓	↓	ReLU		
0	-1	2	1	→	-1	-2	~	0	0
-1	1	0	2	→	4	4	~	4	4
0	1	1	1	→	6	4	~	6	4
-1	0	0	3	→	1	2	~	1	2

Hidden Layer 3

W3	b3									
0	-1	-1	2	5	→	-3	1	~	0	1
-1	1	1	0	2	→	12	10	~	12	10
-1	0	1	0	3	→	9	7	~	9	7
									1	1

Output Layer

W4				b4							
-1	1	-1	-2	→	↓	↓	σ				
					1	0	~	0.73	0.50		
								Y1	Y2		

