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* Initial weights: 0.2 and 0.1
* Threshold: 0.1 Learning Rate: 0.5
* Function: Step activation function

One solution is to increase the weights of the unit: w1 = 2 and w2 = 2:

P1 : v = 2 · 0 + 2 · 0 = 0 , (0 < 2) , y = ϕ(0) = 0

P2 : v = 2 · 1 + 2 · 0 = 2 , (2 = 2) , y = ϕ(2) = 1

P3 : v = 2 · 0 + 2 · 1 = 2 , (2 = 2) , y = ϕ(2) = 1

P4 : v = 2 · 1 + 2 · 1 = 4 , (4 > 2) , y = ϕ(4) = 1

Alternatively, the threshold is 1:

ϕ(v) = ( 1 if v ≥ 1

( 0 otherwise