ALTERNATIVA

$w_1 = 0,\ w_2 = 1,\ w_0 = 0,\ \eta = 1/2$

x_1	x_2	t
-1	-1	-1
-1	1	-1
1	-1	-1
1	1	1

Epoca 1

$R_1: Y = SIGN(-1) = -1$ OK

$R_2: Y = SIGN(1) = 1 \neq -1$

$w_0 = 0 + \frac{1}{2}(-1)\cdot 1 = -1/2$

$w_1 = 0 + \frac{1}{2}(-1)\cdot -1 = 1/2$

$w_2 = 1 + \frac{1}{2}(-1)+1 = -3/2$

$R_3: Y = SIGN(+3/2) = +1 \neq -1$

$w_0 = -\frac{1}{2} + \frac{1}{2}(-1)\cdot 1 = -1$

$w_1 = \frac{1}{2} + \frac{1}{2}(-1)\cdot 1 = 0$

$w_2 = -\frac{3}{2} + \frac{1}{2}(-1)\cdot -1 = -1$

$R_4: Y = SIGN(-2) = -1 \neq 1$

$w_0 = -1 + \frac{1}{2}(1)\,1 = -1/2$

$w_1 = 0 + \frac{1}{2}(1)\,1 = 1/2$

$w_2 = -1 + \frac{1}{2}(1)\,1 = -1/2$

Epoca 2

$R_1: Y = SIGN(-1/2) = -1$ OK

$R_2: Y = SIGN(-3/2) = -1$ OK

$R_3: Y = SIGN(1/2) = 1 \neq -1$

$w_0 = -1/2 + 1/2 \cdot (-1)\cdot 1 = -1$

$w_1 = 1/2 + 1/2 \cdot (-1)\cdot 1 = 0$

$w_2 = -1/2 + 1/2 \cdot (-1)\cdot -1 = 0$

$R_4: Y = SIGN(-1) = -1 \neq 1$

$w_0 = -1 + \frac{1}{2}(1)\cdot 1 = -1/2$

$w_1 = 0 + \frac{1}{2}(1)\cdot 1 = 1/2$

$w_2 = 0 + \frac{1}{2}(1)\cdot 1 = 1/2$

Epoca 3

R_1: $Y = SIGN(-3/2) = -1$ OK

R_2: $Y = SIGN(-1/2) = -1$ OK

R_3: $Y = SIGN(-1/2) = -1$ OK

R_4: $Y = SIGN(1/2) = 1$ OK