XOR is Linear or Not?

XOR truth table

X	Υ	X⊕Y
0	0	0
0	1	1
1	0	1
1	1	0

Threshold value $\theta = 1$

Activation Function:

$$f(X,Y) = \begin{cases} 1 & \text{if } X \oplus Y \ge 1 \\ 0 & \text{if } X \oplus Y < 1 \end{cases}$$

Graph:

