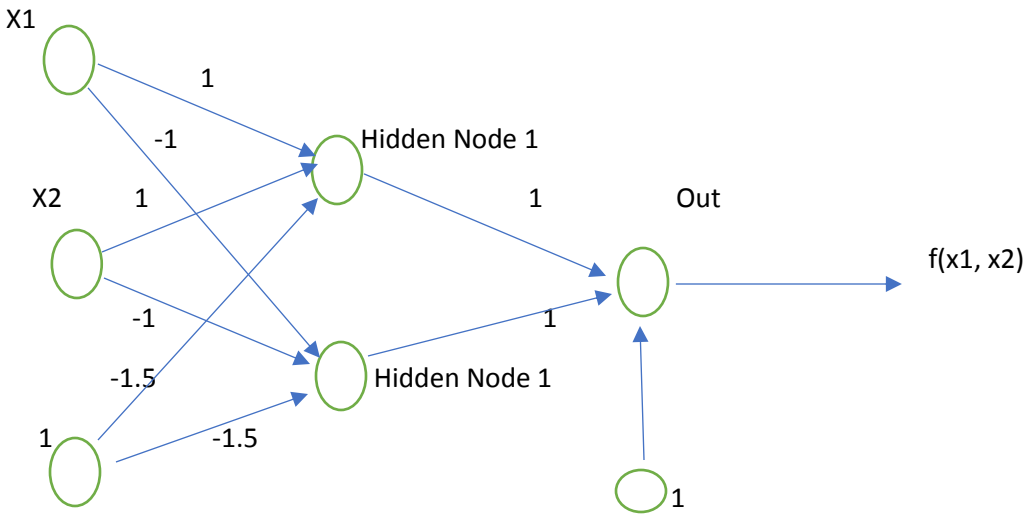

The dataset is not linearly separable. Therefore, we will need at least two hidden units. Each hidden unit will represent a line that classifies one of the squares (or crosses) correctly but mis-classifies the other. The output unit will resolve the disagreement between the two hidden units. I am assuming that the symbol × is positive and the other symbol implies negative class.

All hidden and output units are simple threshold units. Each sign unit will output a +1 if w0x0 + w1x1 + . . . + wnxn > 0 and −1 else.