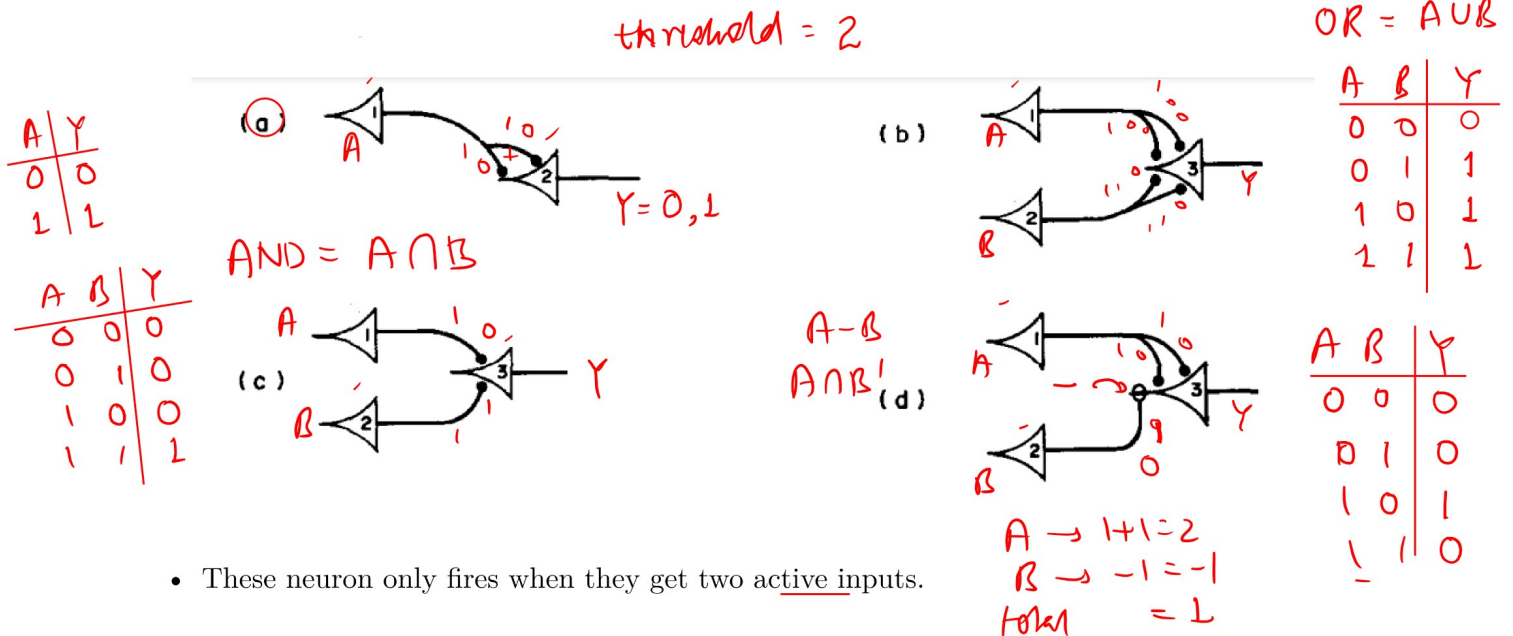


# 1 The first artificial neuron

- It was in year 1943, Artificial neuron was introduced by-
  - Neurophysiologist Warren McCulloch and
  - Mathematician Walter Pitts
- They have published their work in McCulloch, W.S., Pitts, W. A logical calculus of the ideas immanent in nervous activity. Bulletin of Mathematical Biophysics 5, 115-133 (1943). <https://doi.org/10.1007/BF02478259>.
- They have shown that these simple neurons can perform small logical operation like OR, NOT, AND gate etc.
- Following figure represents these ANs which can perform (a) Buffer, (b) OR, (c) AND and (d) A-B operation



- These neuron only fires when they get two active inputs.