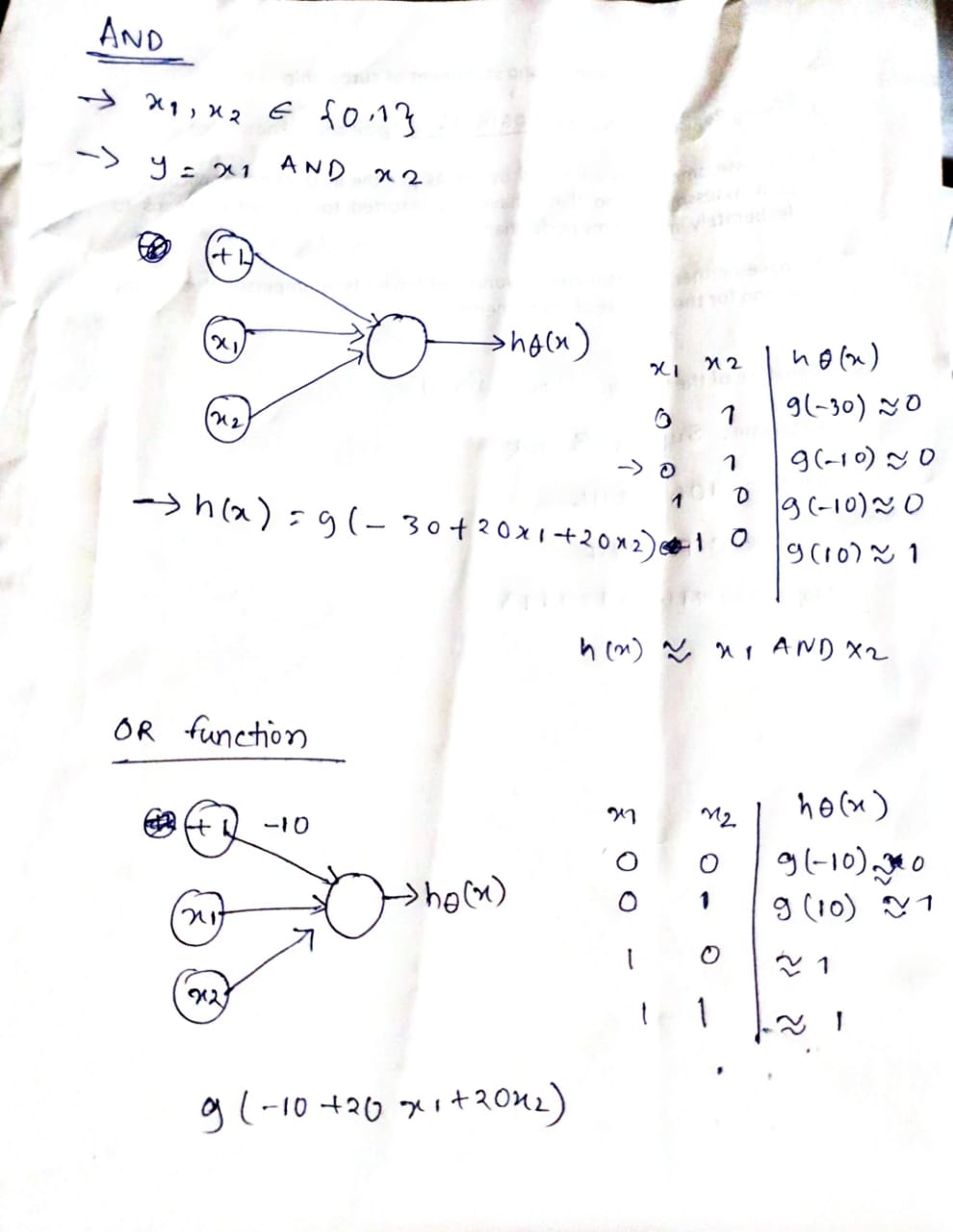
5. c) In your choice of language(Preferably python/R), Implement a class with the name MPNeuron. This class implements an MP Neuron. Implement the following member functions in your class: (i) Initialise the constructor with the default number of inputs n = 3 and all inputs being [1,1,1] and the weights being [1,1,1] and threshold as 2.5, (ii) MP\_Neuron\_Input() - Accepts the number of inputs n, list of n inputs and the list of n weights with -1 being inhibitory and +1 being excitatory, and the threshold (theta) also, (iii) MP\_Neuron\_Evaluate() which outputs the final binary output 0 or 1 if the final value computed by the neuron is greater than the threshold. Test the MP neuron with 3 inputs and choose an appropriate combination of weights and biases to implement a 3 input NAND gate.

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We can take -1,-1,-1 as weights and -2.5 as threshold