

# CIS 419/519: Homework 5

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Although the solutions are entirely my own, I consulted with the following people and sources while working on this homework:

## 1 Logical Functions with Neural Nets

a.

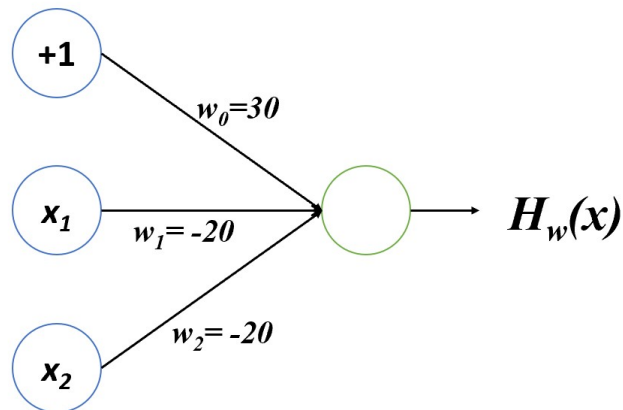


Figure 1: NAND

b.

## 2 Calculating Backprop by Hand

## 3 Neural Nets in SuperTuxKart