FFR135 Artificiall Neural Networks

Homework 2.1

Question 1: For the first question we have 2^n different inputs. For each Boolean function of the inputs we can either have 0 or 1 as an output. This leads to the amount of different Boolean functions being:

2^(2^n)

Where n is the dimension. In our case n=3 and thus:

2^(2^3) = 256

Question 2: I simply figured that since we are working with a cube it will be 6 symmetries for each function

Question 3: The answer for this was simply looked up on the internet