## Hand In 4 FYST85

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## 1 First Exercise

Firstly the NAND-gate looks like

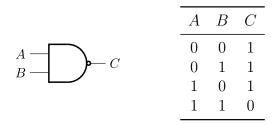


Figure 1: NAND-gate and the corresponding truth table.

Now we can easily make the AND-gate

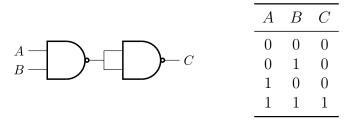


Figure 2: AND-gate and the corresponding truth table.

As well as the NOT-gate

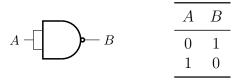


Figure 3: AND-gate and the corresponding truth table.

And finally the XOR-gate

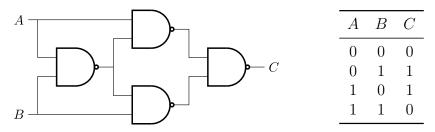


Figure 4: XOR-gate and the corresponding truth table.

## 2 Second Exercise