Homework 7

1. (50 pints) Demonstrate the logical equivalence
of OR and XOR operators with
$\neg (\neg P \wedge \neg Q)$

2. (50 points) Relate NOT and AND operators to NAND operator

3. (50 points) Draw circuit for $\neg (\neg P \wedge \neg Q)$,
for $(P \uparrow P)$ and $(P \uparrow Q) \uparrow (P \uparrow Q)$

4. (50 points) Draw circuits for 1 + 1 - as well as for memory unit
give an explanation, how they work