Homework #2 due October 24, Tuesday 2023, before recitation

- (1) Try to simplify the following expressions and justify your simplification.
- (i) (0+1)*.1.(0+1) +(0+1) *.1.(0+1)
- (ii) (((0*.1*)+1)*(0+1)*)*
- (iii) **(L+M*)***
- (iv) **(L.M*)***
- (2) Convert the regular expression $((0.0^*.(1.1)) + 0.1)^*$ into an ε -NFA
- (3) Problems from the textbook
- 3.1.1 (b) and (c)
- 3.1.4 (b) and (c)
- 3.2.1 (c) and (d)
- 3.2.3