

HW 4 Due: 22 sep 2017

1. Use the pumping lemma to prove that $L = \{ww : w \in \{0,1\}^*\}$ is nonregular. 50
2. Prove that $L = \{w \in \{a,b\}^* : |w|_a \neq |w|_b\}$ is nonregular. 50