Review 12

Automata & Theory of Computation

Student ID:

Name:

1. Show the following languages are not regular.

$$(1) L = \{a^n b^n : n \ge 0\}$$

(2)
$$L = \{ww^R : w \in \Sigma^*\}$$

(3)
$$\Sigma = \{a, b\}, L = \{w \in \Sigma^* : n_a(w) < n_b(w)\}$$