CS 302 **QUIZ** 3

8 October, 2019

Duration: 15 minutes

Do not forget to write your name on your paper!

QUESTION

- (a) (3 pts) State the Pumping Lemma
- **(b)** (7 pts) Is the language **L** where

 $L := \{w \in \{a,b\}^* \mid a \mid b \mid r; p > r; p,r = non-negative integers\}$ a regular language? If so find an NFA that accepts it; if not prove it using the pumping lemma.