

**10 pts**

YOU WILL TURN IN ONE SHEET with your group number and the names of people in your group.

Write an NPDA for the following languages. Be sure to test them on strings in the language and strings not in the language.

1.  $L = \{ww^R \mid w \in \Sigma^+\}, \Sigma = \{a, b\}, \Gamma =$

2.  $L = \{ww \mid w \in \Sigma^*\}, \Sigma = \{a, b\}, \Gamma =$