CIS 341, Day Class, Spring 2004	Quiz #1	Prof. M. K. Nakayama
Print Family (i.e., Last) Name:		
Print Given (i.e., First) Name:		
Write all answers in the space pr	rovided.	
During this quiz it is prohibited	to:	
<ol> <li>exchange information with an changing papers or books;</li> </ol>	y other perso	n in any way, including by talking or ex-
2. use any electronic aid, includin	ng calculators	;
3. use any books or notes;		
4. leave the classroom before you	ı complete and	d turn in your quiz.
I have read and understand all of have not violated the provisions of t		ions above. On my honor, I pledge that I demic Honor Code.
Signature and Date		

1. Prove that  $(st)^R = t^R s^R$  for any strings s and t.

2. Let L be the language Palindrome defined over  $\Sigma = \{a, b\}$ .

(a) Give a recursive definition for L.

(b) Give a counterexample showing that  $L^* \neq L$  when L is Palindrome. Be sure to explain your answer.