

Wednesday, February 14

Name _____

Email _____

6.s081 Spring 2018

Miniquiz #5

5 Minutes

Eliminate left-recursion from these grammars.

1.

$S \rightarrow a$

$S \rightarrow S \text{ ', ' } a$

$S \rightarrow a S'$

$S' \rightarrow \text{' , ' } a S'$

$S' \rightarrow \varepsilon$

2.

$E \rightarrow ID$

$E \rightarrow E \text{ '+ ' } E$

$E \rightarrow ID E'$

$E' \rightarrow \text{' + ' } ID E'$

$E' \rightarrow \varepsilon$