

Wednesday, February 13

Name _____

6.035 Spring 2013

Miniquiz #5

5 minutes

1. What are the *items* of the grammar:

$$E \rightarrow E + E$$

$$E \rightarrow ID$$

2. We can define the set of elements reachable from X , written $Reachable(X)$, by two rules:

- X is in $Reachable(X)$
- If Y is in $Reachable(X)$ and Y is connected to Z , written $Y \rightarrow Z$, then Z is in $Reachable(X)$

What is the fixed point of these rules for $Reachable(X)$ given the following connections:

$$X \rightarrow A$$

$$B \rightarrow C$$

$$C \rightarrow D$$

$$A \rightarrow C$$