CS 381	**Introduction to Theory of Computing**	QUIZ 11
SUMMER 2000		JUNE 16, 2000

Write your name in the space below. Failing to do so may result in not recording the points you earn for this quiz.

Consider the grammar below:

$$E \rightarrow E + E \mid E - E \mid E * E \mid E/E \mid 1 \mid 2 \mid 3$$

1. Give a left-most derivation for $3 - 2 - 1$.

2. Give a right-most derivation for $3 - 2 - 1$.

3. (2 points) Give the derivation trees for the derivations in (1) and (2).

4. Evaluate the expression $3 - 2 - 1$ according to the two derivations that you generated.