

PROF. MARCUS KRACHT: LING 20. FALL 2007.

Assignment C [Week 4] (Do exercises for a total of 20 points)

[C1.] (10 points) Here are some affixes: /pre/, /a1/ and /pro/. Determine for each of them

- ① whether they are prefixes (= added before the word) or suffixes (= added after the word),
- ② which word class they can be affixed to, and
- ③ into which word class the result falls.

Give at least two examples of their use in each case. Further, dissect the word /fundamentalism/ into a root plus affixes as best as you can. Do the same for /experimental/.

[C2.] (10 points) Let the following sentence be given:

(1) Some squirrels are faster than Paul.

- ① Try to establish the constituents of this sentence, by doing some substitution tests.
- ② Say which constituent is an immediate constituent of which other constituent according to your analysis.
- ③ Draw the tree corresponding to your analysis.

[C3.] (10 points) Let the following context free grammar be given. The start symbol is S, the nonterminal symbols are S, A, B, C, D, E and F.

- (2a) $S \rightarrow BC$
(2b) $B \rightarrow DE$
(2c) $D \rightarrow \text{the} \mid \text{some}$
(2d) $E \rightarrow \text{student} \mid \text{mouse}$
(2e) $C \rightarrow FB$
(2f) $F \rightarrow \text{watches} \mid \text{criticizes}$

- ① Give one complete derivation of a string.

- ② Can you give standard names for the constituents of this grammar? (Use the grammar at the end of Lecture 8 for such labels.)
- ③ Describe the language generated by the grammar

$S \rightarrow \text{anti } S \text{ missile} \mid \text{missile}$