

Name of the Student: _____

Question 1

Read Gazdar et al. (1985), chapter 2, and Sag et al. (2003), chapter 3.

- You may skip §6 of the first for now.
- You may start with §3.3 of the second. Before that is an analogy for explaining the logic of feature structures; it does not seem very helpful.
- The whole Gazdar et al. (1985) is [here](#).

Question 2

In Sag et al. feature structures have types like *word*, *phrase* etc. Do you think this is any different from just introducing a feature called TYPE with values *phrase*, *word* etc. in Gazdar et al.'s formulation?

Question 3

Unify the following structures if they can be unified:

(a) $\begin{bmatrix} F & x \end{bmatrix} \sqcup \begin{bmatrix} G & y \end{bmatrix} =$

(b) $\begin{bmatrix} F & \begin{bmatrix} J & k \end{bmatrix} \end{bmatrix} \sqcup \begin{bmatrix} G & \begin{bmatrix} J & s \end{bmatrix} \end{bmatrix} =$

(c) $\begin{bmatrix} F & \begin{bmatrix} J & k \end{bmatrix} \end{bmatrix} \sqcup \begin{bmatrix} J & k \end{bmatrix} =$