

**EXERCISE #5**

1. Write out the following statements in rule using feature notation:

- a. Vowels are stressed in the penultimate (= before the last) syllable.
- b. Vowels are voiceless between two voiceless consonants.
- c. Nasals and liquids are syllabic word-finally, following a consonant.
- d. Vowels are nasalized before a nasal consonant followed by either a consonant or a word boundary.
- e. Vowels become short before a voiceless consonant word-finally, or before a voiceless consonant followed by another consonant.
- f. Vowels are stressed in the final syllable unless it is followed by a syllable containing a lax vowel, in which case it will be stressed in the penultimate syllable.

2. State in plain English what the following rules do.

$$a. \begin{array}{c} C \\ [-\text{sonorant}] \end{array} \rightarrow [\alpha \text{ voice}] / \text{ \_\_\_\_\_\_ } \begin{array}{c} C \\ \left( \begin{array}{c} -\text{sonorant} \\ \alpha \text{ voice} \end{array} \right)$$

$$b. V \rightarrow [+stress] / \text{ \_\_\_\_\_\_ } C_o\#$$

$$c. \begin{array}{c} C \\ \left( \begin{array}{c} +\text{sonorant} \\ -\text{nasal} \end{array} \right) \end{array} \rightarrow [+syllabic] / C \text{ \_\_\_\_\_\_ } \#$$

$$d. \begin{array}{c} \left( \begin{array}{c} -\text{consonantal} \\ -\text{syllabic} \\ \alpha \text{ back} \\ \beta \text{ round} \end{array} \right) \end{array} \rightarrow \emptyset / \text{ \_\_\_\_\_\_ } \begin{array}{c} V \\ \left( \begin{array}{c} +\text{high} \\ \alpha \text{ back} \\ \beta \text{ round} \end{array} \right)$$

$$e. \emptyset \rightarrow \begin{array}{c} C \\ \left( \begin{array}{c} -\text{son} \\ +\text{cont} \\ +\text{SG} \\ -\text{voice} \end{array} \right) \end{array} / V \text{ \_\_\_\_\_\_ } V$$