

- (3) Come up with a generalization about the contexts that [t] and [tʃ] occur in.
- (4) Do you think the underlying form of the phoneme should be /t/ or /tʃ/? Why?
- (5) Write a rule that will derive the non-basic allophone in the appropriate contexts. First write it in words and then write it in features.

2. Luganda

Consider the following data from Luganda, a Bantu language.

[insert data – Fromkin et al. p. 336, exercise 14]

- (1) **Morphological analysis: Give the morphemes for the two prefixes and the root words, listing all allomorphs when applicable.**

'a'			
'little'			
'canoe'		'peg'	
'house'		'horn'	
'animal'		'garden'	
'kidney'		'stranger'	
'feather'		'branch'	

(2) Which do you think is the basic (phonemic) form of each root noun ('canoe,' 'house,' etc.). Why? On the chart above, circle what you think is the basic form. (Or, if you think the basic form is something different, write it in and circle it.)

(3) Given your answer in (2), what has to be the basic (phonemic) form of the prefix meaning 'a'? Why? Circle it on the chart above (or write it in).

(4) Based on your answers so far, what is the underlying (phonemic) form of the following words from the data set? [The dash "-" goes between prefix and root.]

[ēnato]	=	/	-	/	'a canoe'
[ēmpipi]	=	/	-	/	'a kidney'
[akapipi]	=	/	-	/	'little kidney'
[ēnnīmiro]	=	/	-	/	'a garden'
[akadīmiro]	=	/	-	/	'little garden'

(5) How many rules will be needed to derive the surface forms from the underlying forms? Describe in words what each rule will do.

(6) Formulate each rule using feature notation. [Note: you can use variables for feature values, such as α nasal.]