Homework Assignment #4
Due Tuesday September 30th, beginning of class

N 1		
Name:		

Question I: Maltese definites

Maltese is a Semitic language spoken on the island of Malta, in the Mediterranean. Consider the following data that show how the definite (the ...) form of a noun is formed. (The symbol \hbar represents a voiceless pharyngeal fricative.)

[fellus]	'chicken'	[ilfellus]	'the chicken'
[aria]	ʻair'	[laria]	'the air'
[mara]	'woman'	[ilmara]	'the woman'
[omm]	'mother'	[lomm]	'the mother'
[kelb]	'dog'	[ilkelb]	'the dog'
[?attus]	'cat'	[il?attus]	'the cat'
[ħitan]	'walls'	[ilħitan]	'the walls'
[abt]	'armpit'	[labt]	'the armpit'
[ispaniol]	'walls'	[lispaniol]	'the Spanish (language)'

- a. What are the two phonetic forms of the definite marker?
- b. How can you predict where the definite marker goes? What natural classes of sounds seem involved?

Now look at the following data.

[ti:n]	ʻfig'	[itti:n]	'the fig'
[dawl]	ʻlight'	[iddawl]	'the light'
[sħab]	'clouds'	[issħab]	'the clouds'
[natura]	'nature'	[innatura]	'the nature'

C.	What type of phonological process is responsible for this change and how did it affect the definite marker?			
d.	In front of w	vhich class of sounds do	oes this process take place?	
With th	ne knowledge	e you gained above, pre	edict the definite form of the follo	owing nouns:
[da:r]	'hou	use' _		'the house'
[zift]	'pitc	ch' _		'the pitch'
[azzar]	'piec	ce of steel'		'the steel'
[ingliz]	'Eng	glish (lang.)'		'the English (lang.)'
[belt]	'city	· -		'the city'
Questic	on 2: Engl	lish plurals		
The Eng	glish plural m	orpheme has several al	llomorphs. Here are two:	
[z]: [s]:		nd] 'hand' — [hændz it] 'hint' — [hInts]		

take the [z] or the [s] variant of the plural morpheme:								
	[z]	[s]		[z]	[s]		[z]	[s]
song	Ø		cat			dog		
bear			group			rock		
lamb			hen			ring		
pill			laugh _N			love _N		
rib			god			bee		
	Now write down the last sound of each of the words above, f.i. song n cat dog							
			group			rock		
lamb			hen			ring		
pill			laugh			love		
rib			god			bee		
And make two lists: Last sounds of words that take [z]:								
Last sounds of words that take [s]:								

Form the plurals of the words below, say them to yourself carefully, and figure out whether they

If you did everything right above a simple pattern should emerge. What characteristic do the [z] roots that take [z] share that distinguishes them from the [s] ones, and vice versa?

Now look at t	he following words:		
house, bus, gar	rage, bush, match, box		
They take a th	ird allomorph of the plural morpheme. V	Vhat does is sou	ınd like?
What sounds o	do these words end in?		
Why do you th	nink these roots take this allomorph?		
Question 3:	Word final fricatives and stops in German		
[/e:k] [Pilt] [pskk]	'mountain' 'picture' 'write!' 'way'	[vɛk] [vɛlt] [ʃʁɛk]	'shock' 'world' 'tilt!' 'wake (me)!'

a. The last sounds of all of these words share one feature. What is it?

[hu:t]

[ʃmʊk]

[gro:s]

[ʃla:f]

'hat'

'big'

'sleep'

'decoration'

[fremt]

[gra:s] [t₂n:k]

[lo:s]

[ra:t]

'foreign'

'train'

'grass'

'lottery ticket'

'advice', 'wheel'

When we now look at a list of morphologically related forms, something surprising happens.

[pɛʀaə]	'mountains'	[]κεkən]	'shocks'
[bɪldər]	'pictures'	[vɛltən]	'worlds'
[[kaɪpuˈ]	'to write'	[kɪpən]	'to tilt'
[ve:gə]	'ways'	[vɛkən]	'to wake (someone)'
[frɛmdə]	'foreigners'	[hy:tə]	'hat'
[tsy:gə]	'trains'	[ʃmykən]	'to decorate'
[gra:zən]	'to grass'	[gro:sa]	ʻbig'
[lo:ze]	'lottery tickets'	[ʃla:fən]	'sleep'
[ʀæ:dər]	'wheels'	[ʀa:tən]	'to advise'

b. The words on the left behaved differently than the words on the right. How? (Note: Ignore any changes concerning vowels.)

c. (extra credit)

Can you state explicitly how this pattern works?

(Hints: You might have to play around with what you think the underlying form is, and if it seems impossible, try to think of the process as the opposite of what you thought of.)