

### Sudanese Colloquial Arabic

For this problem, identify and describe the alternation in the nouns for ‘country’ and ‘girl’; then, determine each noun’s underlying form. Write (a) rule(s) to account for the alternation, using the features given below. The inventory of phonemes is given for reference.

balat fihim	‘a country understood’
balat xirib	‘a country was ruined’
balat ḥaarab	‘a country fought’
balad malak	‘a country owned’
balad wazzaғ	‘a country distributed’
balad ribiḥ	‘a country profited’
balad liғib	‘a country played’

bit faahma	‘a knowledgeable girl’
bit xaamsa	‘fifth girl’
bit ḥilwa	‘a beautiful girl’
bit la?iima	‘a wicked girl’
bit mardˤaana	‘a sick girl’
bit wannaasa	‘storyteller girl’

---

balas samħa	‘a beautiful country’
balafˤ saaf	‘a country saw’
balaz ziғil	‘a country got angry’
baladˤ dˤaab	‘a country brought’

biz zakiyya	‘an intelligent girl’
bidˤ dˤamila	‘beautiful girl’
bis samħa	‘a beautiful girl’
bif seena	‘an ugly girl’

## Inventory of phonemes for Sudanese Colloquial Arabic

The diacritic [C<sup>f</sup>] indicates there is a pharyngeal secondary articulation involved. This is not relevant for the problem; it is just for your information. (People will call these consonants ‘emphatic’ sometimes.)

	labial	dental	alveolar	palato-alveolar	palatal	velar	uvular	pharyngeal	glottal
stop	p		t t <sup>f</sup>	d d <sup>f</sup>		k	q		?
nasal	m			n					
fricative	f	θ θ <sup>f</sup>	s s <sup>f</sup>	z	ʃ		χ χ <sup>f</sup>	ħ ħ <sup>f</sup>	h
trill				r					
affricate					ðʒ				
approx.					l	j		w	

	Voicing	Manner	Region	Sonorant
b	+voice	plosive	labial	-sonorant
f	-voice	fricative	labial	-sonorant
t	-voice	plosive	coronal	-sonorant
d	+voice	plosive	coronal	-sonorant
s	-voice	fricative	coronal	-sonorant
ʃ	-voice	fricative	coronal	-sonorant
z	+voice	fricative	coronal	-sonorant
ðʒ	+voice	affricate	coronal	-sonorant
k	-voice	plosive	back	-sonorant
g	+voice	plosive	back	-sonorant
x	-voice	fricative	back	-sonorant
ɣ	+voice	fricative	back	-sonorant
ħ	-voice	fricative	pharyngeal	-sonorant
ħ	+voice	fricative	pharyngeal	-sonorant
m	+voice	nasal	labial	+sonorant
n	+voice	nasal	coronal	+sonorant
r	+voice	liquid	coronal	+sonorant
l	+voice	liquid	coronal	+sonorant
w	+voice	glide	labio-velar	+sonorant