Alternation Problems

Russian (Indo-European, spoken in Russia)

	NOM.SG.	DAT. SG.	
a.	xlep	xlebu	'bread'
b.	grop	grobu	'coffin'
c.	tʃerep	tʃerepu	'skull'
d.	xolop	xolopu	'bondman'
e.	trup	trupu	'corpse'
f.	sat	sadu	'garden'
g.	prut	prudu	'pond'
h.	cvet	cvetu	'color'
i.	zakat	zakatu	'sunset'
j.	ras	razu	'time'
k.	zakas	zakazu	'order'
l.	les	lesu	'forest'
m.	us	usu	'whisker'
n.	storoʃ	storoʒu	'guard'
o.	duʃ	duʃu	'shower'
p.	rok	rogu	'horn'
q.	porok	porogu	'threshold'
r.	rak	raku	'crayfish'
s.	porok	poroku	'vice'
t.	vagon	vagonu	'wagon'
u.	vetʃer	vetʃeru	'evening'

Write a rule in features to express the alternations in the data.

Kikuria (Bantu, spoken in Tanzania)

VERB	VERB FOR	
suraːŋga	suraːŋgera	'praise'
taːŋgata	taːŋgatera	'lead'
βaːmba	βaːmbera	'fit a drum head'
reːnda	reːndera	'guard'
rema	remera	'cultivate'
hoːra	hoːrera	'thresh'
roma	romera	'bite'
soːka	soːkera	'respect'
tat͡ʃora	tat͡ʃorera	'tear'
siːka	seːkera	'close'
tiɣa	teɣera	'leave behind'
ruɣa	roɣera	'cook'
suka	sokera	'plait'
huːta	hoːtera	'blow'
riːŋga	reːngera	'fold'
siːnda	seːndera	'win'

Write a rule in features to account for the alternations observed in the data.