

What feature or features differentiates the sound in each of the following pairs? For each feature, state which member of the pair has the 1 value. Symbols are IPA. You can use the feature chart in your textbook, or Feature Pad, discussed below.

Examples: p b: b is 1 [voiced]

i o: i is 1 [+high], o is 1 [+LABIAL, +round, +back]

- | | | |
|----------|--------------|-----------|
| a. [ʉ ʏ] | i. [h ʔ] | q. [ç x] |
| b. [u ɔ] | j. [p t]r. | r. [ʁ ʀ] |
| c. [j ɥ] | k. [ts̺ tʃ̺] | s. [k kʷ] |
| d. [u ɯ] | l. [kʰ k] | t. [w pʷ] |
| e. [i ɨ] | m. [u w] | |
| f. [i ɪ] | n. [tθ̺ tʃ̺] | |
| g. [ð z] | o. [v β] | |

- ʉ = [+high]
- ɔ = [+round, +LABIAL]
- ɥ = [+round, +LABIAL]
- u = [+back] ; ɯ = [+front]
- ɨ = [+round]
- i = [+tense]
- ð = [+distributed] ; z = [+strident]
-
- h = [+continuant, +delayed release, +spread glottis] ; ʔ = [+consonantal, +constricted glottis]
- p = [+labial] ; t = [+coronal]
- ts̺ = [+anterior] ; tʃ̺ = [+distributed]
- kʰ = [+front]
- u = [+syllabic]
- tθ̺ = [+distributed] ; tʃ̺ = [+strident]
- v = [+labiodental]
-
- x = [+high] ; ç = [+back]
- ʁ = [+delayed release] ; ʀ = [+low]
- kʷ = [+labial, +round]
- pʷ = [+consonantal] ; w = [+voice, +approx, +continuant, +sonorant, +DORSAL]

For each segment, if you change the value of the feature(s) indicated, what new segment will be derived?

	Old segment	Feature(s) to be changed
a.	[j]	[syllabic]
b.	[o]	[high]
c.	[d̥]	[voice]
d.	[s]	[strident], [distributed]
e.	[e]	[front], [back]
f.	[o]	[front], [back]
f.	[u]	[round], [LABIAL]
g.	[x]	Change [0back, 0front] to [-back, +front]
h.	[i]	[front]