

1. Problem

Describe the following Cardinal vowels according to the three parameters vowel height, frontness-backness, and lip rounding:

- (a) [e] is the close / near-close / close-mid / mid / open-mid / near-open / open front / front centralized / central / back centralized / back unrounded / rounded vowel.
- (b) [œ] is the close / near-close / close-mid / mid / open-mid / near-open / open front / front centralized / central / back centralized / back unrounded / rounded vowel.

Solution

For an overview of the 18 Cardinal vowels see [https://en.wikipedia.org/wiki/Cardinal\\_vowels](https://en.wikipedia.org/wiki/Cardinal_vowels).

- (a) [e] is the close-mid front unrounded vowel.
- (b) [œ] is the open front rounded vowel.