Definition 1. *The function* ***Consonants*** *pairs a string of letters with the same string, but the vowels removed, leaving only the consonants.*

- *The domain of Consonants is all strings of letters in the English alphabet.*
- *The codomain of Consonants is all strings of letters in the English alphabet.*
- *The pair (string1, string2) is a member of the Consonants function if string2 is string1 with the vowels removed.*

Exercise 1 *Evaluate Consonants("mathematics")*

Multiple Choice:

(a) *mathematics*

(b) *"mthmtcs"* ✓

Feedback (attempt): *"Remove" a, e, a, and i from mathematics and you get "mthmtcs".*

Exercise 2 *Evaluate Consonants("twhmk")*

Multiple Choice:

(a) *"twhmk"* ✓

(b) *"twhmk" is not in the domain*

Feedback (attempt): *"twhmk" is a string of letters. If you remove the vowels, then you end up with the same string.*

Exercise 3 *Consonants("wikoomdart")* = $\boxed{\text{"}wkmdrt\text{"}}$

Exercise 4 *Does the range of Consonants equal the codomain.*

Multiple Choice:

(a) *Yes*

(b) *No* ✓

Feedback (attempt): *The codomain contains "cat" and the range does not.*

Exercise 5 *If string1 and string2 are two different strings of letters, then is it possible for Consonants(string1) = Consonants(string2)?*

Multiple Choice:

(a) *Yes* ✓

(b) *No*

Feedback (attempt): *Example: Consonants("book") = Consonants("bake")?*
