What's Wrong with these Recipes? 4

Directions: Names that are longer than 20 characters are considered long names. Write a function that takes in a person's name and returns true if it is a long name and false if it is not.

Contract and Purpose Statement ☐

Every contract has three parts...

; long-name? :   String   ->   Boolean

      function name   *domain*   *range*

; Check if a name is longer than 20 characters

                        what does the function do?

Examples ☐

Write some examples, then circle and label what changes...

(EXAMPLE (long-name?   "John Joseph Jingleheimer Schmidt")

        function name   *input(s)*

(> (string=? "John Joseph Jingleheimer Schmidt")

(EXAMPLE (long-name?   "Jos Jaime Juarez") (> (string=? "Jos Jaime Juarez") 10))

   10)   *function name*   *input(s)*   )   *what the function produces*

                 what the function produces

Definition ☐

Write the definition, giving variable names to all your input values...

(define (long?   name   )

       function name   *variable(s)*

  (< name 20)   )

                    what the function does with those variable(s)

Directions: Write a function, offscreen?, which returns true is Sam the butterfly's x-coordinate is less than -50 or greater than 690.

Contract and Purpose Statement ☐

Every contract has three parts...

; offscreen? :   Number   ->   Boolean

      function name   *domain*   *range*

; Given an x-coordinate, returns true if the coordinate is less than -50

                        what does the function do?

Examples ☐

Write some examples, then circle and label what changes...

(EXAMPLE (offscreen?   60   ) true   )

        function name   *input(s)*   *what the function produces*

(EXAMPLE (offscreen?   800   ) false   )

        function name   *input(s)*   *what the function produces*

Definition ☐

Write the definition, giving variable names to all your input values...

(define (off-screen   x-coord   )

       function name   *variable(s)*

  (and (< x-coord -50) (> x-coord 690))   )

                    what the function does with those variable(s)