Check for Mistakes in this Word Problem: circle-area

Directions: *Write a function that returns the area of a circle given its diameter.*

Contract and Purpose Statement

Every contract has three parts ...

; circle-area **:** number → number

function name   domain   range

; Takes the diameter of a circle and calculates the area by multiplying

what does the function do?

Examples

Write some examples of your function in action...

(EXAMPLE(circle-area   10   **)** (* (sqr (/ 10 2)) pi)   )

function name   input(s)   what the function produces

(EXAMPLE(circle-area   50   **)** (* (sqr (/ 50 2)) pi)   )

function name   input(s)   what the function produces

Definition

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

(define(area   diameter   **)**

function name   variables

(* (sqr diameter) pi)   **)**

what the function does with those variables