

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 ...

<code>; circle-area :</code>	<code>number</code>	\rightarrow	<code>number</code>
function name	domain		range
<code>; Takes the diameter of a circle and calculates the area by multiplying</code>			
what does the function do?			

Examples

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

<code>(EXAMPLE(circle-area</code>	<code>10</code>	<code>) (* (sqr (/ 10 2)) pi)</code>
function name	input(s)	what the function produces
<code>(EXAMPLE(circle-area</code>	<code>50</code>	<code>) (* (sqr (/ 50 2)) pi)</code>
function name	input(s)	what the function produces

Definition

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

<code>(define(area</code>	<code>diameter</code>	<code>)</code>
function name	variables	
<code>(* (sqr diameter) pi)</code>		
what the function does with those variables		