

Check for Mistakes in this Word Problem: offscreen?

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

Contract and Purpose Statement

Every contract has three parts...

<code>;</code>	<code>offscreen?</code>	<code>:</code>	<code>number</code>	<code>→</code>	<code>boolean</code>
	<hr/>		<hr/>		<hr/>
	<i>function name</i>		<i>domain</i>		<i>range</i>
<hr/>					
<code>;</code>	<code>Given an x-coordinate, returns true if the coordinate is less than -50</code>				
	<hr/>				
	<i>what does the function do?</i>				

Examples

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

<code>(EXAMPLE (</code>	<code>offscreen?</code>	<code>60</code>	<code>)</code>	<code>(true)</code>	<code>)</code>
	<hr/>	<hr/>		<hr/>	
	<i>function name</i>	<i>input(s)</i>		<i>what the function produces</i>	
<hr/>					
<code>(EXAMPLE (</code>	<code>offscreen?</code>	<code>800</code>	<code>)</code>	<code>(false)</code>	<code>)</code>
	<hr/>	<hr/>		<hr/>	
	<i>function name</i>	<i>input(s)</i>		<i>what the function produces</i>	

Definition

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

<code>(define (</code>	<code>off-screen</code>	<code>x-coord</code>	<code>)</code>
	<hr/>	<hr/>	
	<i>function name</i>	<i>variables</i>	
<hr/>			
<code>(and</code>	<code>(< x-coord -50)</code>	<code>(> x-coord 690)</code>	<code>)</code>
	<hr/>		
	<i>what the function does with those variables</i>		