

## 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>

  

<code>;</code>	<code>Given an x-coordinate,</code>	<code>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>	

  

<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>	

  

<code>(and</code>	<code>(&lt; x-coord -50)</code>	<code>(&gt; x-coord 690)</code>	<code>)</code>
	<hr/>		
	<i>what the function does with those variables</i>		