

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...

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

Examples



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

(EXAMPLE (<u>offscreen?</u>	<u>60</u>)	<u>(true)</u>)
	<small>function name</small>	<small>input(s)</small>		<small>what the function produces</small>	
(EXAMPLE (<u>offscreen?</u>	<u>800</u>)	<u>(false)</u>)
	<small>function name</small>	<small>input(s)</small>		<small>what the function produces</small>	

Definition



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

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