

Check for Mistakes in this Word Problem: late-to-class?

Directions: You will be late to class if you have to walk more than 25 pixels to get there. Write a function that takes in your x-coordinate and y-coordinate and the x-coordinate and y-coordinate of the classroom and returns true if you will be late to class and false if you will be on time.

Contract and Purpose Statement □

Every contract has three parts...

$$\begin{array}{ccc} \text{; late-to-class?} & : & \text{number number number number} \rightarrow \text{boolean} \\ \hline \text{function name} & & \text{domain} \qquad \qquad \qquad \text{range} \end{array}$$

$$\begin{array}{c} \text{; Takes the coorindates of my location and a classroom and returns true} \\ \hline \text{what does the function do?} \end{array}$$

Examples □

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

(EXAMPLE ((late-to-class?)	(> 25 (distance 40 55 65 80)))
<hr/>	<hr/>	<hr/>
<i>function name</i>	<i>input(s)</i>	<i>what the function produces</i>
(EXAMPLE ((late-to-class?)	(< 25 (distance 40 55 65 80)))
<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...

```
(define( late-to-class? student-x student-y school-x school-y )
  (( < 25 (distance student-x student-y school-x school-y))) )
```

function name
variables

what the function does with those variables