

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 miles 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...

| | | | | | | |
|---------------|----------|--------|--------|--------|---|---------|
| function name | number | number | number | number | → | boolean |
| | distance | | | | | range |

; Takes the coordinates of my location and a classroom and returns true

Examples

Write some examples, don't write and don't fix the examples...

| | | |
|-------------------------|----------|---------------------------------|
| (EXAMPLE(late-to-class? |) | (> 25 (distance 40 55 65 80))) |
| function name | input(s) | what the function produces |

| | | |
|-------------------------|----------|---------------------------------|
| (EXAMPLE(late-to-class? |) | (≤ 25 (distance 40 55 65 80))) |
| function name | input(s) | what the function produces |

Definition

Write the definition, give 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))) )
```

Write the definition that calls these variables