

Word Problem: distance

Directions: Write a function `distance`, which takes FOUR inputs:

- *px*: The x-coordinate of the player
- *py*: The y-coordinate of the player
- *cx*: the x-coordinate of another game character
- *cy*: the y-coordinate of another game character

It should return the distance between the two, using the Distance formula. (HINT: look at what you did on the previous page!)

Contract and Purpose Statement □

Every contract has three parts...

$$f: \text{function name} \rightarrow \text{domain} \rightarrow \text{range}$$

what does the function do?

Examples □

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

(EXAMPLE ()

function name *input(s)*

) _____

what the function produces

(EXAMPLE (_____)
function name input(s)

what the function produces

Definition □

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

```
(define ( functionname variables )  
  what the function does with those variables )
```