Word Problem: distance

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:

$$Distance^2 = (px - cx)^2 + (py - cy)^2$$

Contract+Purpose Statement

```
# distance :: Number, Number, Number, Number -> Number
  Consumes the coordinates of 2 characters: px, py, cx, and cy, produces
# the distance between them using the distance formula
```

Give Examples

Write examples of your function in action

```
examples:
    distance(4, 2, 0, 5)        is
      num-sqrt(num-sqr(4 - 0) + num-sqr(2 - 5))

    distance(80, 33, 6, 50)     is
      num-sqrt(num-sqr(80 - 6) + num-sqr(33 - 50))
end
```

px py cx cy

Function

```
fun distance(px, py, cx, cy):

    num-sqrt(num-sqr(px - cx) + num-sqr(py - cy))


end
```