The Distance Between (0, 2) and (4, 5)

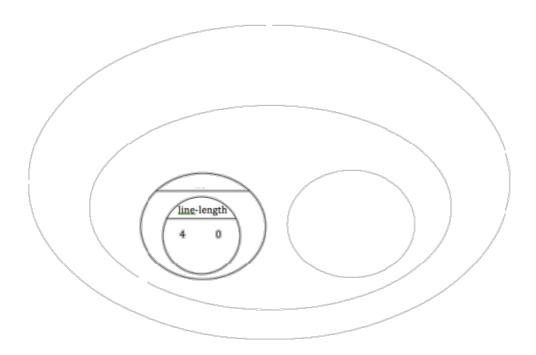
The distance between x_1 and x_2 is computed by line-length (x1, x2). The distance between y_1 and y_2 is computed by line-length (y1, y2). Below is the equation to compute the hypotenuse of a right triangle with those amount for legs:

$$\sqrt{line ext{-}length(x_1,x_2)^2+line ext{-}length(y_1,y_2)^2}$$

Suppose your player is at (0, 2) and a character is at (4, 5). What is the distance between them? With your pencil, label which numbers represent x_1, y_1, x_2 and x_y . The equation to compute the distance between these points is:

$$\sqrt{line ext{-}length(0,4)^2 + line ext{-}length(2,5)^2}$$

1. Translate the expression above, for (0,2) and (4,5) into a Circle of Evaluation below.



2. Convert the Circle of Evaluation to Code below.

$$num-sqrt(num-sqr(line-length(x1, x2)) + line-length(x1, x2))$$