Word Problem: is-collide

Directions : Use the Design Recipe to write a function `is-collide`, which takes in the coordinates of two objects and checks if they are close enough to collide.

Contract and Purpose Statement

Every contract has three parts...

#	is-collide::	Number, Number, Number, Number	->	Boolean
	function name	*domain*		*range*

\# Takes in two pairs of x/y coordinates and uses the distance between them to check for collision

what does the function do?

Examples

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

examples:

is-collide (0, 0, 3, 4   ) **is** distance(0, 0, 3, 4) < 50

function name — *input(s)* — *what the function produces*

is-collide (25, 50, 250, 480) **is** distance(25, 50, 250, 480) < 50

function name — *input(s)* — *what the function produces*

end

Definition

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

fun   is-collide(x1, y1, x2, y2):

function name — *variable(s)*

distance(x1, y1, x2, y2) < 50

what the function does with those variable(s)

end