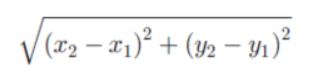
**Task 01:**

The following formula gives the distance between two points, (x1, y1) and (x2, y2) in the Cartesian plane:



Given the center and a point on the circle, you can use this formula to find the radius of the circle. Create a WindowBuilder Application that asks the user to input the center (x1 and y1) and a point (x2 and y2) on the circle. Your program should then display the following:

1. Distance: Use the formula above to create the distance.
2. Radius: Same as above. Distance = Radius.
3. Diagonal: If r is the radius, then diagonal is 2r.
4. Circumference: If r is the radius, the circumference is 2πr.
5. Area: If r is the radius, the area is πr2

**Create a popup message box to display the results.**

**Task 02:**

A phone company wants your help to create a telephone directory on a WindowBuilder Application. Using classes, store the following information that they want to manage:

* Person Name
* Area Code
* Telephone Number

Create a class called TelephoneRecord to store the data. Inside a JTextField ask the user about how many records they want to create, and then create an array to store the information.

Disable the JTextField after accepting the input. (You can do this by using setEnabled)

Use JTabbedPane to create 3 tabs one for each operation (add, display, update). You should also implement proper functions for adding, displaying and updating records within the class.

For update, you can ask user for which record number they want to update.

**Task 03:**

For the task above, implement the same operations, however create new windows for each operation.

The main window should have 4 options:

* Input for array size (disable after taking input)
* Add record
* Display records (try using JTable to display the records)
* Update record