**A+ Computer Science DISTANCE FORMULA**

**Lab Goal :** This lab was designed to teach you more about objects, input, output formatting, and the Math class.

**Lab Description :** Determine the distance the between two points.



The distance formula for (x1, y1) and (x2, y2) is:

**Sample Data :**

1 1 2 1

1 1 -2 2

1 1 0 0

**Sample Output :**

**Files Needed ::**

**Distance.java**

**DistanceRunner.java**

Enter X1 :: 1

Enter Y1 :: 1

Enter X2 :: 2

Enter Y2 :: 1

distance == 1.000

Enter X1 :: 1

Enter Y1 :: 1

Enter X2 :: -2

Enter Y2 :: 2

distance == 3.162

Enter X1 :: 1

Enter Y1 :: 1

Enter X2 :: 0

Enter Y2 :: 0

distance == 1.414

***FORMATTING OUTPUT***

**//printf is a void method**

**System.out.printf(**"**%.3f\n**"**,9.541724); //outs 9.542**

**//format is a String return method**

**System.out.println(String.format(**"**%.3f**"**,9.541724)); //outs 9.542**