

ENGR–UH 1000 Lab 0 Report

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```
1  /*-----*/
2  /* Name: Pi, Student Number: N13394469 */
3  /* Date: Sep 8, 2020. */
4  /* Program: distance.cpp */
5  /* Description: This program computes the distance */
6  /* between two points. */
7  /*-----*/
8  #include <iostream>
9  #include <cmath>
10 using namespace std;
11 int main()
12 {
13     /* Declare and initialize the variables */
14     double x1 = -1, y1 = -3, x2 = 4, y2 = 6;
15     double length1, length2, distance;
16
17     /* Compute the sides of a right triangle */
18     length1 = x2 - x1;
19     length2 = y2 - y1;
20
21     /* Compute the distance between the two points. */
22     distance = sqrt(length1*length1 + length2*length2);
```

```
23
24  /* Print the distance */
25  cout << "The distance between the two points is " << distance << endl;
26  return (0);
27  }
28  /*-----End-----*/
```