ENGR–UH 1000 Lab 0 Report

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$$\sum_{\forall i} x_i^2$$

```cpp
/*------------------------------------------------------*/
/* Name: Pi, Student Number: N13394469 */
/* Date: Sep 8, 2020. */
/* Program: distance.cpp */
/* Description: This program computes the distance */
/* between two points. */
/*------------------------------------------------------*/
#include <iostream>
#include <cmath>
using namespace std;
int main()
{
/* Declare and initialize the variables */
double x1 = -1, y1 = -3, x2 = 4, y2 = 6;
double length1, length2, distance;

/* Compute the sides of a right triangle */
length1 = x2 - x1;
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--------------------*/
```