## ENGR-UH 1000 | Lab 0 Report

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## 1 Problem Identification and Statement.

Computing the distance between two given points in a Cartesian plane, given the Cartesian coordinates of the two points.

- 2 Gathering of Information and Input/Output Description.
- 3 Test Cases and Algorithm Design.
- 4 Implementation.
- 5 Software Testing and Verification.

```
% Pandoc math demos
   a^2 + b^2 = c^2
   v(t) = v_0 + \tfrac12 a t^2
   \gamma = \frac{1}{\sqrt{1 - v^2/c^2}}
   \exists x \forall y (Rxy \equiv Ryx)
   p \land q \models p
   \Box \diamond p \equiv \diamond p
   \int_0^1 x dx = \left[\frac{1}{2}x^2\right]_0^1 = \frac{1}{2}
   e^x = \sum_{n=0}^{\infty} \frac{x^n}{n!} = \lim_{n \to \infty} (1 + x/n)^n
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>
using namespace std;
```