Week 7-8-9

Q13. Overload binary operator - to add two find distance

between two points p1 (x1, y1) and p2 (x2, y2)

#include <iostream>

#include <cmath>

using namespace std;

class Point {

public:

double x,y;

Point(double xCoord,double yCoord): x(xCoord), y(yCoord){}

double operator-(const Point& p){ // Overloading binary - operator to calculate distance between points

return sqrt(pow(x - p.x, 2) + pow(y - p.y, 2));

}

};

int main(){

Point p1(3.0,4.0);

Point p2(7.0,1.0);

double distance = p1 - p2;

cout<<"Distance between points: "<<distance<<endl;

return 0;

}