Homework 10 - CSE 283

Due: 11:59pm, April 14 (Friday)

Design three classes:

- 1. Define a point class.
  - 1. Two floating point values X, and Y.
  - 2. A member function to display a point.
  - 3. Any member functions you believe to be important.
  - 4. Any operators that may be important.
- 2. Define a shape class. It must be an abstract class, that contains at least:
  - 1. A linear ordering container of points
  - 2. A member functions to display shape data.
  - 3. Two pure virtual member functions for area and perimeter.
  - 4. Any member functions you believe to be important.
  - 5. Any operators that may be important.
- 3. Define a triangle class which inherits shape, that contains at least:
  - 1. Three points.
  - 2. A method to display shape data.
  - 3. Two member functions for area and perimeter.
  - 4. Any member functions you believe to be important.
  - 5. Any operators that may be important.
- 4. Similar to 3, define a rectangle class which also inherits shape.

You need to provide proper test cases to demonstrate your program.