Wyo C++ Name -
Ch. 10 worksheet #2 Period -

Write the following code on lined paper.

1. Write a struct definition that defines a struct named `Student` with public member variables `name`, `GPA`, and `gradeLevel`. Use appropriate data types for the member variables.

2. Write a struct definition that defines a struct named `Rectangle` with public member variables named `length` and `width`. The member variables must be doubles. Also include a default constructor and accessors named `getLength`, `getWidth`, and `getArea`. The member functions must be public.

3. Implement the `Rectangle` struct definition above by writing the full member function definitions for all of the member functions prescribed. The default constructor should assign the value 0.0 to all member variables and an initializer list should be used where appropriate.

4. Write a struct definition that defines a struct named `Circle` with a private double member variable named `radius`. The `Circle` struct must include a default constructor as well as a constructor that accepts a parameter for the `radius` value. It must also include accessors named `getRadius`, `getArea`, and `getCircumference`. It must also have a modifier named `setRadius`.

5. Implement the `Circle` struct by writing out all of the member functions to perform the appropriate computations and tasks. The default constructor and the other constructor must use initializer lists and the default constructor must set the `radius` to 0.0.