Review Questions (OOP in C++)

1. What is a pure virtual function? How does the concept relate to an abstract base class?

2. A pure virtual function or pure virtual method is a virtual function that is required to be implemented by a derived class that is abstract. True or false?

3. What is dynamic dispatch?

4. What makes a class abstract?

5. Can I inherit the constructor and destructor of a base class?

6. Which of the following is false for a destructor?

   (a) The destructor has the same name as the class
   (b) If the object was created with a new expression, then its destructor is called when the delete operator is applied to a pointer to the object
   (c) Its main purpose is to clean up and to free the resources
   (d) None of the above

7. What functions of the base class are not inherited?

8. What is polymorphism. Give an example of its use.