1. (2 pts) Java supports inheritance through the keyword __________ and only supports __________ inheritance since we can only list one class name after the keyword.

2. (2 pts) Suppose we have the following class definitions.
   
   ```java
   class A extends B
   class B extends C
   ```

   Which two of the following declarations will cause a compile-time error? Assume that there are no constructors defined in classes A, B, or C. Explain the compile-time errors.
   
   ```java
   A a = new A();
   B b = new A();
   C c = new A();
   A a1 = new B();
   B b1 = new C();
   C c1 = new B();
   ```

3. (2 pts) True/False __________ We can create an instance of a class A without any constructor from Object.java ever being invoked? If class A extends B, then B is called a __________ of A.

4. (2 pts) Along with static and instance initializers, __________ and __________ are not inherited by subclasses.

5. (2 pts) Consider the following class definitions.
   
   ```java
   class B {
       private int num;
       public B(int num) {
           this.num = num;
       }
   }
   class A extends B {
       private int num1;
       public A(int num, int num1) {
           this.num1 = num1;
           super(num);
       }
   }
   class C extends B {
   }
   ```

   There are compile-time errors in the class definitions of both A and C. What are they?