1. (4 points) What does the following program print? There should be 7 lines of output.

```java
class Quiz2 {
    public static void main(String[] args) {
        ClassOne one = new ClassOne();
        one.print();
        one = new ClassTwo(); // see question 2
        one.print();
        System.out.println(one.data);
        ClassTwo two = (ClassTwo)one;
        two.print();
        System.out.println(two.data);
        one.mystery();
        two.mystery();
    }
}

class ClassOne {
    int data = 101;
    public void print() {
        System.out.println("ClassOne");
    }
    public void mystery() {
        print();
    }
}

class ClassTwo extends ClassOne {
    int data = 202;
    public void print() {
        System.out.println("ClassTwo");
    }
}
```

2. (2 points) What would happen if the line in the program from the previous question with the comment "see question 2" was deleted from the program? (Circle the correct answer and provide details as indicated.)
   a. The program would cause a compile time error. DESCRIBE the error.
   b. The program would get a runtime error. Show the output (if any) generated before the error occurs and DESCRIBE the error.
   c. The program would execute normally. What is the output?

   Put your explanation/description here (if any).

   You will get a ClassCastException on the line with the explicit cast to (ClassTwo).

   Put your output here (if any).

   ClassOne
   ClassTwo
   101
   ClassTwo
   ClassTwo

   ClassOne
   ClassOne
   101
   ClassCastException:…