Homework 5

1. What is the output of the following program?

```
1 public class MysteryNumbers {
2    public static void main(String[] args) {
3        String one = "two";
4        String two = "three";
5        String three = "1";
6        int number = 20;
7
8        sentence(one, two, 3);
9        sentence(three, two, 1);
10       sentence("eight", three, number / 2);
11 }
12
13   public static void sentence(String three, String one, int number) {
14       System.out.println(one + " times " + three + " = " + (number * 2));
15   }
16 }
```

2. What output is produced by the following program?

```
1 public class MysterySoda {
2    public static void main(String[] args) {
3        String soda = "coke";
4        String pop = "pepsi";
5        String coke = "pop";
6        String pepsi = "soda";
7        String say = pop;
8
9        carbonated(coke, soda, pop);
10       carbonated(say, "say", pop);
11   }
12   public static void carbonated(String coke, String soda, String pop) {
13       System.out.println("say " + soda + " not " + pop + " or " + coke);
14   }
15 }
```

3. Evaluate the following expressions:

a. Math.abs(–1.6)
b. Math.abs(2 + –4)
c. Math.pow(6, 2)
d. Math.pow(5 / 2, 6)
f. Math.ceil(115.8)
g. Math.max(7, 4)
h. Math.min(8, 3 + 2)
i. Math.min(–2, –5)
j. Math.sqrt(64)
m.13 + Math.abs(–7) – Math.pow(2, 3) + 5
n. Math.sqrt(16) * Math.max(Math.abs(–5), Math.abs(–3))