1. (2 pts) Is the following a valid method declaration? Why or why not?

```java
public gcd(int firstNumber, int secondNumber) {
}
```

2. (2 pts) Is there a compile-time error in the following method declaration? If so, what is the problem?

```java
public boolean largerThan50(int number) {
    if (number < 50)
        return(false);
    else if (number > 50)
        return(true);
}
```

3. (2 pts) Does the following code produce a compile-time error? If not, could you add one line of code that would cause a compile-time error? Explain. This code is an example of __________________________ which involves having more than one method in a class definition with the same name.

```java
public class Question3 {
    public static int largest(int i, double d) {
        return(1);
    }
    public static int largest(double d, int i) {
        return(1);
    }
    public static void main(String[] args) {
    }
}
```

4. (2 pts) The _________________ of a method is a combination of its name and parameter list, and all parameter passing in Java is by _____________________.

5. (2 pts) What does the following code print? Explain the output.

```java
public class Question5 {
    public static void modify(int number) {
        number = 1;
    }
    public static void main(String[] args) {
        int number = 2;
        modify(number);
        System.out.println(“The modified value of number is ” + number + “.”);
    }
}
```