1. (2 pts) Suppose we have the following code.

```java
int number = 0;
boolean found = (number > 0) && (1/number == 2);
```

Is there a compile-time error? Why or why not?

2. (2 pts) Suppose the following is false. Assume number is an int.

```java
(number > 3) || (number % 2 == 0) || (number <= 1)
```

What is the value of number?

3. (2 pts) Is the following true or false? Why? Assume number is an int which is initially 0.

```java
counter++ > ++counter
```

4. (2 pts) True/False ________________ The value of counter++ is the value of counter after it is incremented.

5. (2 pts) A popular model of the Software Life Cycle is the ________________ model.