1. (2 pts) If we want to test to see if the int variable i is equal to a multiple of 3, the conditional test we would use is `i % 3 == 0`.

2. (2 pts) Will there be an error produced by the following code? Explain.

```java
int i = 0;
if (i != 0 && 1/i > 1)
    System.out.println("Hello");
```

There won't be a run-time error. Short-circuit evaluation will prevent `1/i` from being evaluated.

3. (2 pts) What is the output of the following code?

```java
System.out.println(((3 > 4) || (5 > 6)) ? 5 : 6);
```

Since the conditional is false, the value of the ternary operator is 6 so 6 is printed.

4. (2 pts) The format specifier to print an int in a field of length 12 followed by a char in a field of length 5 that would be used in the printf statement would be `%12d%5c`.

5. (2 pts) Will the following code compile successfully? Why or why not? If it compiles successfully, what does it print?

```java
double d = 1.0;
switch (d) {
    case 1.0 : System.out.println("Hello");
                break;
    case 2.0 : System.out.println(2);
                break;
    default : System.out.println(3);
}
```

It will not compile successfully. The switch variable must be of type byte, short, char, or int.