1. The following piece of code has three errors. Circle each of the errors, and also describe how you would fix each error. Assume that x and y are variables of type int and have already been declared and initialized.

```java
if (x = 4)
    if (5 <= y <= 7)
        System.out.println("x is 4, and y is close to 6");
else
    System.out.println("x is not 4");
```

2. What is wrong with the following code and how would you fix it?

```java
Rectangle r1 = new Rectangle(5,4,6,8);
r1.translate(1,2);
Rectangle r2 = new Rectangle(6,6,6,8);
if (r1 == r2)
    System.out.println("Rectangles match");
else
    System.out.println("Rectangles don’t match");
```

3. Translate the following switch statement into an sequence of if/else if/.../else. You may assume that i and x are variables of type int and have already been declared and initialized.

```java
switch(i) {
    case 0:  x = 5;
    break;
    case 2:  x = 4;
    break;
    case 4:  x = 7;
    break;
    default: x = 10;
    break;
}
```

4. Evaluate the boolean expression (true || true && false) && !(false || true) || true):