Short Circuit Work Sheet

Student Name: _____

Period: _____   PC #: _____

Directions: Write down what each code segment outputs. The variables *a* and *b* are `ints`.

Teacher Example 1:

```
a=5; b=3;
if((a-=2) == 3 || (b+=3) == 7)
    System.out.println("a = " + a-- + ", b = " + b++);

System.out.println("a = " + a + ", b = " + b);
```

Teacher Example 2:

```
a=5; b=3;
if((a-=2) == 3 && (b+=3) == 7)
    System.out.println("a = " + a-- + ", b = " + b++);

System.out.println("a = " + a + ", b = " + b);
```

Student Try 1:

```
a=8; b=5;
if((a-=5) == 2 || (b*=-1) == 8)
    System.out.println("a = " + a-- + ", b = " + b++);

System.out.println("a = " + a + ", b = " + b);
```

Student Try 2:

```
a=8; b=5;
if((a-=5) == 2 && (b*=-1) == 8)
    System.out.println("a = " + a-- + ", b = " + b++);

System.out.println("a = " + a + ", b = " + b);
```

Student Try 3:

```
a=7; b=1;
if((a/=3) == 2 && (--b) == 0)
    System.out.println("a = " + a-- + ", b = " + b++);

System.out.println("a = " + a + ", b = " + b);
```

Student Try 4:

```
a=3; b=8;
if((a+=8) == 9 || (b-=a) == 5)
    System.out.println("a = " + a-- + ", b = " + b++);

System.out.println("a = " + a + ", b = " + b);
```