## **Exercise on Lesson 6**

1. Write code that will take the square root of x and store the result in y.

```
y = Math.sqrt(x);
```

2. Write code that will multiply the value of the integer j times the absolute value of the integer m and then store the result in the integer k.

```
k = j * Math.abs(m);
```

3. Is the following legal? If not, what would you do to make it legal? int k = Math.abs(-127.5);

```
No int k = (int)Math.abs(-127.5);
```

4. Write a statement that will print the result of  $2^{1.5}$ .

```
System.out.println(Math.pow(2, 1.5));
```

5. System.out.println(Math.ceil(-157.2));

-157

6. System.out.println(Math.floor(-157.2));

-158

7. System.out.println(Math.ceil(157.2));

158

8. System.out.println(Math.floor(157.2));

157

9. System.out.println(Math.round(-157.2));

-157

10. System.out.println( Math.ceil(-157.7) );
-157
11. System.out.println( Math.ceil(157) );
157
12. System.out.println( Math.ceil(157.7) );
158
13. Write a statement that will print the natural log of 18... same as ln(18) on a calculator.

14. Write a line of code that multiplies *double* p times  $\pi$  and stores the result in b.

$$b = p * Math.PI;$$

 $System.out.println(\ Math.log(\ 18\ )\ );$