Multiple Choice: /* 2 points each */

1. For what range of values of the variable **x** would the body of this Processing **for** statement be executed?

```
for (int x = 0; x < 20; x++) {
    println(x);
}</pre>
```

- A) 0 to 20
- B) 1 to 20
- C) 0 to 19
- D) 0 to 21
- E) None of these

2. How many circles are drawn by this code?

```
for (int x = 90; x <= 10; x = x - 10) {
    ellipse( x, 100, 5, 5);
}</pre>
```

- A) 0
- B) 1

C) 9

- D) 10
- E) None of these

Short Answer:

1. Write a for loop that prints all of the multiples of 7 from 49 up to 777 on separate lines in the Console. /* 4 points */

2. What would be printed by the following Processing code? /* 3 points */

```
for (int k = 1; k <= 3; k++) {
    println("hi");
    println("bye");
}
println("done");</pre>
```

3. What would be printed by the following Processing code? /* 3 points */

```
int total = 0;
total = total + 3;
total = total + 11;
total = total + 8;
print("total = ");
println( total );
```

4. What would be printed by the following Processing code? /* 3 points */

```
int total = 0;
total = +3;
total = +11;
total = +8;
print("total = ");
println( total );
```

Short Answer (continued):

5. What is printed by the following code for each given pair of values of a and b?: /* 1 point for each part */

```
int sum = a;
for (int k = 1; k <= b; k++) {
    sum = sum + a;
}
print("sum = ");
println(sum);</pre>
```

a) a = 7 and b = 2

c) a = 50 and b = 0

b) a = 4 and b = 3

d) a = 0 and b = 5

6. Fill in the blanks in this Processing code so that it prints the following table in the Console: /* 4 points */ Hint: "\t" is the tab character – it's how we can get the inches column to line up after printing yards.

```
Yards Inches
1 36
2 72
3 108
.
.
.
10 360
```

```
print( yards );
print( "\t");
println(inches);
}
```