CSC 108 Quiz # 3 Name _____

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);
}
```

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);
}
```

A) 0
B) 1
C) 9
D) 10
E) None of these

Short Answer:

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

2. Explain, on each given line, what Processing is doing in the following code. /*3 points*/

```
for (int k = 1; k <= 3; k++) {  _____________________________________
     println("hi"); _____________________________
     println("bye"); ____________________________
}
println( "done" ); _____________________________
```

Short Answer (continued):

3. Fill in the blanks in this Processing code so that it prints the following table in the Console: /* 5 points */ Hints: "\t" is the tab character – it's how we can get the inches column to line up after printing yards. Your code will include every row, not the ". . ."

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

```
int yards, inches;
println("Yards \t Inches");
for (_____________ ; _____________;_____________) {
_____________________________________________;
print( yards );
print( "\t");
println(inches);
}
```

4. Explain, on each given line, what Processing is doing in the following code. /*9 points*/

```
size(300, 300);
background(255);
stroke(0);


  int x = 0; _____________________________________________

  for (int c = 255; c > 0; c -= 15) { _____________________________________

   fill(c);_____________________________

   rect(x, height/2, 10, 10); _____________________________________

   x = x + 10;_____________________________________

  } _____________________________________
```