Name _____ Period_____

1. Refer to the code below to complete the following.

```java
public class Tester {

    public static void main(String[] args){
        double b[] = new double[10];
        b[3] = 19;
        BankAccount myAccount = new BankAccount(79); //sets balance to 79
        int y = 39;
        method1(y, b, myAccount);
        BankAccount anotherAccount = myAccount;
        anotherAccount.deposit = 200;// adds 20 to the balance
        System.out.println(y + " " + b[3] + " " + myAccount.balance);
    }


    public static void method1(int x, double a[], BankAccount theAccount){

        x = 332;
        a[3] = -54;
        theAccount.balance = 702;
    }
}
```

Draw the stack-heap diagram for the code block above

Stack	Heap

Indicate what is printed

---

2. Refer to the code below to complete the following.

```java
public static void main(String args[]){
  int s[] = {1,2,3,4,5,6};

  for(int g = 0; g < s.length; g++)
     System.out.print(s[g] + " ");

  System.out.print("\n");
  testMethod(s);

  for(int g = 0; g < s.length; g++)
     System.out.print(s[g] + " ");
}//end main
```

```java
public static void testMethod(int pp[]){
  int len = pp.length;
  int t2[] = new int[len/2];
  int i = 0;

  for(int j=0; j<len/2; j++){
     i+=2;
     t2[j] = pp[i-1];
  }
  for(int k=0; k<t2.length; k++)
     System.out.print(t2[k] + " ");

  System.out.print("\n");
  pp = t2;
}//endt testMethod
```

Draw the stack-heap diagram for the code block above

Stack	Heap

Indicate what is printed

3. Refer to the code below to complete the following.

```java
public class Tester
{
    public static void main(String args[])
    {
        int [] prf = {13,22,89,15};
        double d = 30.89;
        Circle myCir = new Circle(18);
        myCir.rad = 14;
        fg(prf, d, myCir);

        System.out.println(d);
        System.out.println(prf[2]);
        System.out.println(myCir.rad);
    }

    public static void fg(int [] x, double d, Circle c)
    {
        d++;
        x[2] = 16;
        c.rad = 122;
        System.out.println(d++);

        int nn[] = new int[x.length];
        nn[3] = x[0];
        x = nn;
    }
}
```

(a) What is the output of
    System.out.println(d); in main?

(b) What is the output of
    System.out.println(prf[2]); in main?

(c) What is the output of
   System.out.println(myCir.rad); in *main?*

(d) What is the output of println in the fg method?

/4

Score _____/25