Conditionals, Booleans and Strings

1. Rewrite the getCoordinates method below by factoring to eliminate redundancy. Your code must produce the same results (copy and paste it to start).

```
public static double getCoordinates(Scanner console) {
   System.out.print("x coordinate? ");
   double x = console.nextDouble();
   int neq;
   if (x < 0.0) {
      System.out.print("y coordinate? ");
      double y = console.nextDouble();
      if (y < 0.0) {
         neg = 2;
         System.out.println("negatives = " + neg);
         return x + y + neg;
      } else {
         neg = 1;
         System.out.println("negatives = " + neg);
         return x + y + neg;
   } else {
      System.out.print("y coordinate? ");
      double y = console.nextDouble();
      if (y < 0.0) {
         neg = 1;
         System.out.println("negatives = " + neg);
         return x + y + neg;
      } else {
         neg = 0;
         System.out.println("negatives = " + neg);
         return x + y + neg;
}
```

2. Write a method named numUnique that takes three integers as parameters and that returns the number of unique integers among the three. For example, the call numUnique(18, 3, 4) should return 3 because the parameters have 3 different values. By contrast, the call numUnique(6, 7, 6) would return 2 because there are only 2 unique numbers among the three parameters: 6 and 7.

3. Write a method named is All Vowels that returns whether a String consists entirely of vowels (a, e, i, o, or u, case-insensitively). If every character of the String is a vowel, your method should return true. If any character of the String is a non-vowel, your method should return false. Your method should return true if passed the empty string, since it does not contain any non-vowel characters.

For example, here are some calls to your method and their expected results:

Call	Value Returned
isAllVowels("eIEiO")	true
isAllVowels("oink")	false