Name:				

## CS2113 Quiz 6

20 minutes. TAs will NOT be able to assist you with explaining the code below (this is part of the assessment).

## Grading rubric:

- Question 1: 25 points (12.5 for each method)
- Question 2: 75 points (15 for class declaration, 15 for each of the four methods).

1. Below are two interfaces. The Math class currently implements the Bigger interface. Modify the Math class as indicated to also implement the Smaller interface as well, using only methods in the Bigger interface when filling out the return statements.

```
public interface Bigger{
       public double add(double x, double y);
       public double multiply(double x, double y);
public interface Smaller{
      public double subtract(double x, double y);
       public double divide (double x, double y);
public class Math implements Bigger
       public double add(double x, double y) {
            return x + y;
       public double multiply(double x, double y) {
             return x * y;
       public double subtract(double x, double y) {
               //returns (x - y)
              return __
       }
       public double divide(double x, double y) {
              //returns (x / y)
              return _
```

2. Now rewrite the Math class above to work with generics instead of just primitive doubles. Your Math class should now compile with any type of object.

In addition, it should now be an abstract class, and all its methods should also be abstract.

You don't need to rewrite the two interfaces, just the Math class itself (you can ignore anything about interfaces for this question as long as you have all four method signatures above):

[Complete the template on the next page]

public abstract class Math