

1. 1. Read Appendix F in the textbook to learn about the on line Java API documentation. Then, go to the Java API documentation, look at the Math class documentation, and answer the following questions:
 - a. How many constants are defined in the Math class?
 - i. 2
 - b. How many non-inherited methods are defined in the Math class?
 - i. 53
 - c. How many non-inherited methods have unique method names?
 - i. 36
 - d. How many non-inherited methods have the same name but differ in the number or type of parameters? (For example, func(int a) and(double a) have the same name but a different parameter type). Methods that have the same name but differ in the number or types of parameters are called overloaded methods, and you will learn more about them later in this course unit.
 - i. 28
2. Source code
3. Source code
 - a. They are not the same numbers
 - b. This is because each time the class runs, a new pseudorandom number generator is created by the first call to math.random(), which is used by the program for the rest of the runtime
 - i. The next time the class is run, a new generator is created
4. Source code
5. Sourcecode