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| # | Item | Status | Priority | Comment |
| Section 1 | Test sum method for the type long |  |  |  |
| 1. | To verify the correctness of the result of summation of two numbers of type long for the data set. | Pass Fail | 5 |  |
| Section 2 | Test the method sum to type double |  |  |  |
| 1. | To verify the correctness of the result of summation of two numbers of type double to data set. | Pass Fail | 5 |  |
| Section 3 | Testing of the method of difference for the type long |  |  |  |
| 1. | To verify the correctness of the result of subtraction of two numbers of type long for the data set. | Pass Fail | 5 |  |
| Section 4 | Testing of the method of difference for the type double |  |  |  |
| 1. | To verify the correctness of the result of subtraction of two numbers of type double for the data set. | Pass Fail | 5 |  |
| Section 5 | Testing of the method of the multiplication to type long |  |  |  |
| 1. | To verify the correctness of the result of multiplication of two numbers of type long for the data set. | Pass Fail | 4 |  |
| Section 6 | Testing of the method of the multiplication to type long double |  |  |  |
| 1. | To verify the correctness of the result of multiplication of two numbers of type double for the data set. | Pass Fail | 4 | The test fails because the result of multiplication is applied Math.floor(), which discards all the values after the dot. |
| Section 7 | Testing method the division for the type long |  |  |  |
| 1. | To verify the correctness of the result of dividing two numbers of type long for the data set. | Pass Fail | 4 |  |
| 2. | Check for division by "0". | Pass Fail |  | Expected exception java.lang.NumberFormatException but got java.lang.IllegalArgumentException. |
| Section 8 | Testing method the division for the type double |  |  |  |
| 1. | To verify the correctness of the result of dividing two numbers of type double for the data set. | Pass Fail | 4 |  |
| 2. | Check for division by "0". | Pass Fail | 4 | Should have thrown an exception of class java.lang.NumberFormatException. |
| Section 9 | Testing method the construction of the power |  |  |  |
| 1. | To verify the correctness of the result of raising a number to a power for data set. | Pass Fail | 2 | The test fails because the result of raising a number to a power is applied Math.floor(), which discards all the values after the dot. |
| Section 10 | Test the method of taking the square root of the number |  |  |  |
| 1. | To verify the correctness of the result of the square root of the data set. | Pass Fail | 2 |  |
| 2. | To verify the correctness of the result of the square root for negative numbers. | Pass Fail | 4 | Test fails, because by the input parameter applies the Math.abs(), which returns the number of modulo, and negative numbers are treated as positive. Should throw an exception. |
| Section 11 | Testing method of computing the cosine of a number |  |  |  |
| 1. | To verify the correctness of the calculation result of the cosine for the data set. | Pass Fail | 4 | The test fails because the method is applied Math.sin () that returns the value of sine not cosine. |
| Section 12 | Test method for calculating the sine of a number |  |  |  |
| 1. | To verify the correctness of the result of calculation of the sine of the data set. | Pass Fail | 2 |  |
| Section 13 | Testing method calculate the tangent of number |  |  |  |
| 1. | To verify the correctness of the result of the computation of the tangent for the data set. | Pass Fail | 4 | The test fails because the tangent is calculated by the formula this.sin()/this.cos () and this method.cos() in turn calls the Math.sin(). |
| Section 14 | Test method for calculating the cotangent of a number |  |  |  |
| 1. | To verify the correctness of the result of the computation of the cotangent for a data set. | Pass Fail | 4 | The test fails because the calculation method is called the cotangent Math.tanh(), which returns the hyperbolic tangent of a number. |
| 2. | To verify the correctness of the result of the computation of the cotangent, when the value of the sine equal to "0". | Pass Fail | 4 | The test fails because the calculation method is called the cotangent Math.tanh(), which returns the hyperbolic tangent of a number.  Should have thrown an exception of class java.lang.NumberFormatException. |
| Section 15 | Test method for the determination of positive numbers |  |  |  |
| 1. | To verify the correctness of the result of determining positive numbers for the data set. | Pass Fail | 4 | The test failed because "0" does not specify how positive. |
| 2. | To verify the correctness of the result definition of positive numbers to negative numbers. | Pass Fail | 3 |  |
| Section 16 | Test method for the determination of a negative number |  |  |  |
| 1. | To verify the correctness of the result of the determination of a negative number for the data set. | Pass Fail | 3 |  |
| 2. | To verify the correctness of the result of the determination is negative numbers to positive numbers.д | Pass Fail | 3 |  |