|  |  |  |  |
| --- | --- | --- | --- |
| Expression | Expected Value | Calculated Value | Reason for calculated value |
| math.sqrt(9) | 3 | 3.0 | The function generated the square root of the value passed as it’s argument |
| math.sqrt(-9) | Error | Error | A negative number has no square root |
| Math.floor(3.7) | 3.6 | 3 | The function round’s the value down from 3.7 to 3 |
| math.ceil(3.7) | 3.8 | 4 | The function round’s the value up from 3.7 to 4 |
| math.ceil(-3.7) | -4 | -3 | The function round’s the value up from -3.7 to -3 |
| math.copysign(2, -3.7) | ? | -2.0 | The function copy’s the sign of the value in the y position to the value in the x position given a format of (x, y) |
| math.trunc(3.7) | 3 | 3 | The function removes all values after the decimal place |
| Math.trunc(-3.7) | -3 | -3 | The function removes all values after the decimal place |
| math.pi | 3.14 | 3.141592653589793 | The function imports the value of pi from the math.pi module |
| math.cos(math.pi) | ? | -1.0 | The function obtains the cosine of pi |

Math.pi = 3

Math.pi

This assigns 3 to math.pi hence the output is (3)