|  |  |  |  |
| --- | --- | --- | --- |
| **Expression** | **Expected Value** | **Calculated value** | **Reason for Calculated Value** |
| math.sqrt(9) | 3 | 3 | The interpreter returns the square root of 3 |
| math.sqrt(-9) | 3 | error | The interpreter returns values for a parameter where x>=0 |
| math.floor(3.7) | 3 | 3 | The interpreter rounds the number down to the nearest integer |
| math.ceil(3.7) | 4 | 4 | The interpreter rounds the integer upwards |
| math.ceil(-3.7) | -3 | -3 | The interpreter rounds the integer upwards |
| math.copysign(2,-3.7) | -2 | -2 | The interpreter returns the first value with the sign of the second one |
| math.trunc(3.7) | 3 | 3 | The interpreter returns the value as an integer |
| math.trunc(-3.7) | -3 | -3 | The interpreter returns the value as an integer |
| math.pi | 3.14… | 3.14… | Returns the value of pi which is a constant |
| math.cos(math.pi) |  | -1.0 | It converts pi to radians |

math.pi=3 returns the output as 3 as well as math.pi