|  |  |  |  |
| --- | --- | --- | --- |
| Expression | Expected value | Calculated value | Reason for Calculated value |
| math.sqrt(9) | 3 | 3.0 | Python returns a float |
| math.sqrt(-9) | 3i | Value error | Python doesn’t convert to complex numbers automatically |
| math.floor(3.7) | 3 | 3 |  |
| math.ceil(-3.7) | -4 | -3 | -3 is larger than -4 |
| math.copysign(2,-3.7) | -2 | -2.0 | Python returns a float |
| math.trunc(3.7) | 3 | 3 |  |
| math.trunc(-3.7) | -3 | -3 |  |
| math.pi | 3.14 | 3.141592653589793 | Python provide more decimal values |
| math.cos(math.pi) | -1 | -1 |  |

Math.pi returns 3. This is because math.pi is a variable and hence the original value is overwritten on assigning a new value 3