

Julia Exponential Function – Examples

Julia Exponential Function

Julia Exponential Root is used to find the exponent of a number.

In this tutorial, we will learn how to use the exponential function, `exp()` with examples.

If the argument to the exponential function is near zero and you require an accurate computation of the exponential function, use `expm1(x)` function.

Example 1 – Julia Exponential Function

Exponential function with Integer

```
julia> x = 2
2

julia> exp(x)
7.38905609893065
```

Exponential function with Floating Point Numbers

```
julia> x = 3.5241
3.5241

julia> exp(x)
33.92322896714677
```

Exponential function with Complex Numbers

```
julia> x = 3 + 5im
3 + 5im

julia> exp(x)
5.697507299833739 - 19.26050892528742im
```

Example 2 – Julia Exponential Function – expm1

The accurate value of an exponential function is calculated with `expm1()` function. In the following example, we compared the accurate value of the exponential of an extremely small value (near to zero) with `exp()` function.

```
julia> x = 0.000000001
1.0e-9

julia> exp(x)
1.000000001

julia> expm1(x)
1.0000000005000001e-9
```

Conclusion

In this [Julia Tutorial](#), we learned about Julia Exponential Function and its usage with the help of example scripts.

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