


# TRIGONOMETRIC FUNCTIONS

 \*IDLE Shell 3.10.1\*

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Python 3.10.1 (tags/v3.10.1:2cd268a, Dec 6 2021, 19:10:37) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
```



```
===== RESTART: D:\ST 19-8\Stephens\CS\python\practical3.py =====
```

## Trigonometric Functions

The sine of 3 is :  $\sin(3) \Leftrightarrow 0.1411200080598672$

The cosine of 3 is :  $\cos(3) \approx -0.9899924966004454$

The tan of 3 is :  $\tan(3) \approx -0.1425465430742778$



## Inverse Trigonometric Functions

The arcsine of 0.5691676524174692 is :  $\sin(0.5691676524174692) \iff 0.6054931845723803$


The arccosine of 0.5691676524174692 is :  $\cos(0.5691676524174692) \Leftrightarrow 0.965303142225163$

The arctan of 0.5691676524174692 is :  $\tan(0.5691676524174692) \iff 0.5174400692235959$



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## Hyperbolic Functions

The hyperbolic sine of 3 is :  $\sinh(3) \Leftrightarrow 10.017874927409903$

The hyperbolic cosine of 3 is :  $\cosh(3) \Rightarrow 10.067661995777765$

The hyperbolic tan of 3 is :  $\tanh(3) \iff 0.9950547536867305$

## Inverse Hyperbolic Functions

The inverse hyperbolic sine of 3 is :  $\operatorname{asinh}(3) \Rightarrow 1.8184464592320668$

The inverse hyperbolic cosine of 3 is :  $\text{acosh}(3) \iff 1.762747174039086$

The inverse hyperbolic tan of 0.23 is :  $\operatorname{atanh}(0.23) = 0.2341894667593668$

## Number- theoretic and representation Functions

The ceiling of number 76.37830434183239 is : `ceil(76.37830434183239) <==> 77`

The floor of number 76.37830434183239 is : `floor(76.37830434183239) ==> 76`

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# NUMBER THEORETIC ,REPRESENTATION ,POWER AND LOG FUNCTIONS:

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## Number- theoretic and representation Functions

The ceiling of number 76.37830434183239 is :  $\text{ceil}(76.37830434183239) \Rightarrow 77$

The floor of number 76.37830434183239 is :  $\text{floor}(76.37830434183239) \Rightarrow 76$

The GCD of 76 and 79 is :  $\text{GCD}(76,79) \Rightarrow 1$

The LCM of 76 and 79 is :  $\text{LCM}(76,79) \Rightarrow 6004$

The Remainder when 76 is divided by 79 is :  $\text{Remainder}(76,79) \Rightarrow -3.0$

## Power and Logarithmic Functions

The Exp of number 76.37830434183239 is :  $\text{Expo}(76.37830434183239) \Rightarrow 1.4814128681360027e+33$

The Log of number 76.37830434183239 with respect to base 79.37296869110473 is :  $\text{Log}(76.37830434183239, 79.37296869110473) \Rightarrow 0.9912076368724511$

76.37830434183239 raised to the power 79.37296869110473 is :  $\text{Pow}(76.37830434183239, 79.37296869110473) \Rightarrow 2.863649400727251e+149$

The Square root of 76 is :  $\text{SQRT}(76) \Rightarrow 8.717797887081348$

