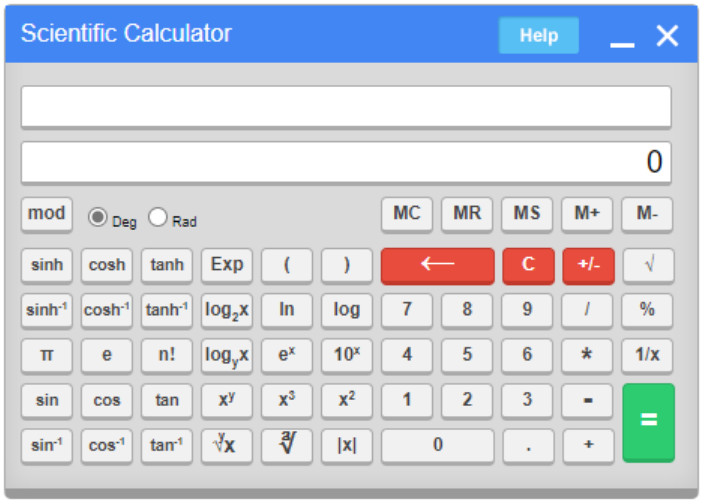
Hello IISER Aspirant! In this file, you will find the important syntaxes related to the virtual calculator :



→ not absolute value!

① (mod) key. 98 mod 6 = 2

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② ln : $\log_e$

log : $\log_{10}$

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③ power inputs.

10^3 : 3 10^x

6^2 : 6 x^2

e^3 : 3 e^x

7^3 : 7 x^3

$\sqrt{49}$: 49 $\sqrt{}$ location of $\sqrt{}$

$\sqrt[3]{64}$: 64 $\sqrt[3]{}$

$\log_2 64$: 64 $\log_2 x$

$\log_4 64$: 64, $\log_y x$, 4

9^4 : 9, x^y, 4

$\sqrt[4]{81}$: 81, $\sqrt[4]{x}$, 4

Trigonometric Inputs

☆ Check the mode!

$\sin\left(\frac{\pi}{6}\right)$: π / 6 = sin

$\tan\left(\frac{\pi}{2}\right)$: π / 2 = tan Math Error

$\cos^{-1}\left(\frac{\sqrt{3}}{2}\right)$: 3 √ / 2 = acos

Hyperbolic Functions

$$\sinh(x) = \frac{e^{x} - e^{-x}}{2}$$

$$\cosh(x) = \frac{e^{x} + e^{-x}}{2}$$

& $\cosh^2(x) - \sinh^2(x) = 1$.

Factorial

$5!$: 5 $n!$