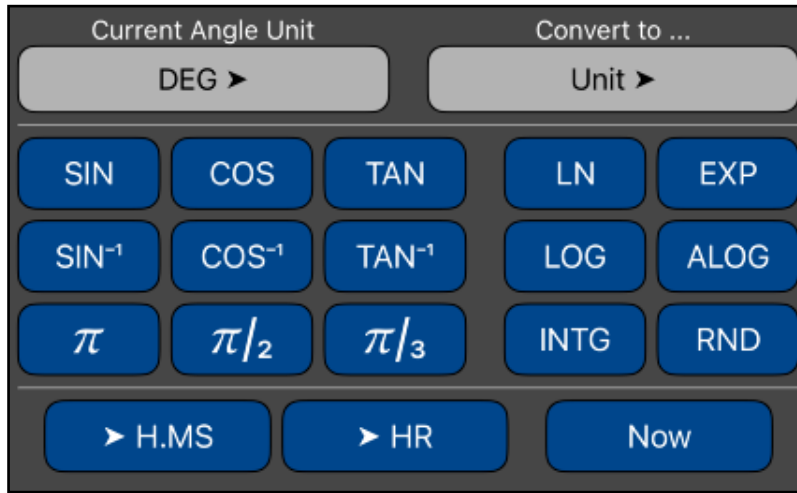


Math Functions Worksheet

This worksheet provides a direct way to apply math functions, angle conversion or time conversions to the displayed number.



Current Angle Unit [DEG ►]	Menu to select the actual angle unit of the displayed number. IT is used to convert to another unit or to apply a trigonometric function.
Convert To... [Unit ►]	Menu to select the unit to convert the displayed number in the current unit to the selected unit.
[SIN]	Calculates the sine of the displayed number angle.
[COS]	Calculates the cosine of the displayed number angle.
[TAN]	Calculates the tangent of the displayed number angle.
[SIN⁻¹]	Calculates the arc-sine of the displayed number angle.
[COS⁻¹]	Calculates the arc-cosine of the displayed number angle.
[TAN⁻¹]	Calculates the arc-tangent of the displayed number angle.
[LN]	Calculates the natural logarithm of the displayed number.
[EXP]	Calculates the exponential of the displayed number.
[LOG]	Calculates the common logarithm (base 10) of the displayed number.
[ALOG]	Calculates the anti logarithm of the displayed number angle.
[INTG]	Calculates the integer part of the displayed number angle.
[RND]	Rounds the displayed number angle to the N° of decimals setting.
[>HMS]	Convert the displayed number to Hour-Minute-Second (H.MMSS).
[> HR]	Converts the displayed number to decimal hours.
[NOW]	Enter the current time in the Display in HMS format.

Example 1: Convert 88° 57' 23.45" to decimal degrees.

Keystrokes	Description
type 88.572345	Type the angle value
Select [DMS] in the Current Angle Unit	Set the current angle unit to Degree-Minute-Seconds.
Convert To [DEG]	Convert to decimal Degrees. Result = 88.96

Example 2: Convert " $\pi / 3$ " Radians to Degree-Minute-Second Format.

Keystrokes	Description
[$\pi / 3$]	Input initial value. Result = 1.0472 ($\pi / 3$ radians).
Select [RAD] in the Current Angle Unit	Set the current angle unit to Radians.
Convert To [DMS]	Convert to D.MMSS format. Result = 60.00 (60° 0' 0").

Example 3: (Trigonometric Functions)

Calculation	Keystrokes	Result
Sine of 33.5 degrees	33.5 [DEG ►] [SIN]	0.55
Cosine of 0.25 radians	0.25 [RAD ►] [COS]	0.97
Tangent of 78 gradians	78 [GRD ►] [TAN]	2.78
Arc-Sine of 0.7982 in radians	0.7982 [RAD ►] [SIN⁻¹]	0.92
Arc-Cos. of 0.2437 in gradians	0.2437 [GRD ►] [COS⁻¹]	84.33
Arc-Tangent of 0.4567 in degrees	0.4567 [DEG ►] [TAN⁻¹]	24.55

Example 4: (Logarithms)

Calculation	Keystrokes	Result
Common logarithm of 2.5	2.5 [LOG]	0.40
Natural logarithm of 68	68 [LN]	4.22
Exponential of 4.6	4.6 [EXP]	99.48
Anti logarithm of 3.56	3.56 [ALOG]	3,630.78

Example 5: Decimal Hour and H:MM:SS

How can you read 13.2756 decimal number as a time? and the time in 1 hour and 20 minutes more ?

Solution:

Keystrokes	Description
13.2756 [→H.MS]	Result -> 13.1632 (13 hours, 16 minutes and 32 seconds)
[→HR] [+] 1.20 [→HR] [=]	Convert to decimal hours. Result -> 13.2756 Decimal hours result -> 14.6089
[→H.MS]	Result -> 14.3632 (14 hours, 36 minutes and 32 seconds).