

# Trigonometry Menu

This tool implements the common trigonometric functions. To show it, select the “**MATH**” menu from the main menu and select the “**TRIG**” tap or touch **[Shift] [TRIG]** in the keyboard.



The calculation of trigonometric functions and Polar-Rectangular conversions are performed accordingly to the selected angle units.

## Example 1: Trigonometric functions

Operation	Keystrokes	Display
Sine of $33.5^\circ$	33.5 <b>[DEG] [SIN]</b>	<b>0.5519</b>
Cosine of $\pi/3$ rad	<b>[\pi] [÷] 3 [=] [RAD] [COS]</b>	<b>0.5000</b>
Tangent of 78 grad	78 <b>[GRD] [TAN]</b>	<b>2.7776</b>
Arc-Sine of 0.7982 in rad	0.7982 <b>[RAD] [ASIN]</b>	<b>0.9243</b>
Arc-Cos. of 0.2437 in grad	0.2437 <b>[GRD] [ACOS]</b>	<b>84.3278</b>
Arc-Tangent of 0.4567 in $^\circ$	0.4567 <b>[DEG] [ATAN]</b>	<b>24.5462</b>

## Example 2: Polar <-> Rectangular

Convert the rectangular coordinate (10.0, 5.0) to polar coordinates. Express the angular result in Degrees.

Keystrokes	Description
5 [INPUT]	Type the Y-coordinate and the calculator's [INPUT] key to enter it.
10	Type the X-coordinate.
[DEG]	Set the Angular mode to Degrees.
[ → R, Ø ]	Calculate the angle in the Y-stack. <b>∠ = 26.5651</b> (Degrees) Calculate the radius in the X-stack. <b>Radius = 11.1803</b> (Radius)

**Example 5:** Convert the polar coordinate (12.0 , ∠30.0°) to rectangular coordinates.

Keystrokes	Description
30 [INPUT]	Type the Angle and the calculator's [INPUT] key to enter it.
12	Type the Radius.
[DEG]	Set the Angular unit to Degrees.
[ → X,Y ]	Calculate the Y-coor in the Y-stack. <b>Y = 6.0000</b> Calculate the Y-coord. in the X-stack. <b>X = 10.3923</b>