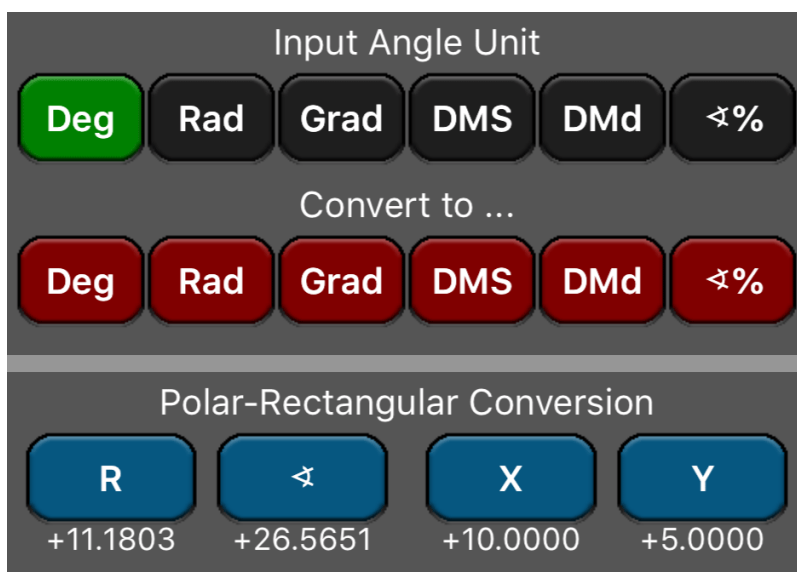


Angles & Polar Conversions Menu



Key	Action
[DEG] [RAD] [GRD] [DMS] [DMd] [↗%]	Touch to set the angular unit of the displayed number to Decimal Degrees, Radians, Gradians, Degree-Mnute-Seconds, Degree-Arc Minutes or Slope Percent.
[DEG] [RAD] [GRD] [DMS] [DMd] [↗%]	Touch to convert the displayed number from the current angular unit to Decimal Degrees, Radians, Gradians, Degree-Mnute-Seconds, Degree-Arc Minutes or Slope Percent. Also updates the current unit.
[R] [↗] [X] [Y]	Stores or calculates the Polar (R, ↗) or Rectangular (X,Y) coordinates.

Note: In the Polar-Rectangular conversion, the polar angle is interpreted in the current angle unit setting.

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

Keystrokes	Description
Select [DMS] as Input unit	Set the input angle unit to Degree-Mnute-Seconds.
Type 88.572345	Type the DMS angle.
Touch convert to [DEG]	Convert to Decimal Degrees. Result = 88.9565

Example 2: Convert 23.5 Degrees to Radians, gradians, slope percent and Degree-Minutes-Seconds.

Keystrokes	Description
Type 23.5 & set Input unit to [DEG]	Type the value to convert and set the Angular unit to Degrees.
[RAD]	Convert to Radians. Result = 0.4102
[GRD]	Convert to Gradians. Result = 26.1111
[↗%]	Convert to slope percent. Result = 43.4812
[DMS]	Convert to D.MMSS format. Result = 23.3000 (23 degrees, 30 minutes and 0 seconds).

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

Keystrokes (RPN mode)	Description
Type "180" & [DEG] [RAD] "3" [÷]	Set Angular unit to Degrees, type 180, convert to radians and divide by 3. Result = 1.0472 ($\pi / 3$ radians).
[DMS]	Convert to D.MMSS format. Result = 60.00 (60 degrees, 0 minutes and 0 seconds).

Example 4: Convert the rectangular coordinate (10.0, 5.0) to polar coordinates. Express the angular result in Degrees.

Keystrokes	Description
Type "10" [X]	Type the X-coordinate and touch [X] button to enter it.
Type "5" [Y]	Type the Y-coordinate and touch [Y] button to enter it.
[DEG]	Set the Angular unit to Degrees.
[R]	Calculate the radius. Result = 11.1803 (Radius)
[↵]	Calculate the angle. Result = 26.5651 (Degrees)

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

Keystrokes	Description
Type "12" [R]	Type the radius and touch [R] button to enter it.
Type "12" [↵]	Type the angle and touch [↵] button to enter it.
[DEG]	Set the Angular unit to Degrees.
[X]	Calculate the X-coordinate. Result = 10.3923
[Y]	Calculate the Y-coordinate. Result = 6.0000