

TRG	Trigonometry					
g-shift	DEG $\circ$	RAD $\circ$	GRAD $\circ$	D.MS $\circ$	MUL π $\circ$	ATAN2
f-shift	sinc	sinc π	.ms	.ms ⁻¹	$\rightarrow$ R	$\rightarrow$ P
unshifted	$\Rightarrow$ DEG	$\Rightarrow$ RAD	$\Rightarrow$ GRAD	$\Rightarrow$ D.MS	$\Rightarrow$ MUL π	DRG
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Prev menu https://47calc.com/doc/R47/Menus/R47v0_Menu_ToolSlv_page_1.pdf

Next menu https://47calc.com/doc/R47/Menus/R47v0_Menu_TRG_R47_page_1.pdf

Ref 1 https://47calc.com/doc/R47/Reference/R47v0_DMS-HMS.pdf

Level	Label	Type	FullName	Extended description	Category	Flag	Catalog	Default
Menu p1	TRG	MENU	Trigonometry	Trigonometry functions ; Info : C47 menu TRG is replaced by TRG_R47 ; Ref : https://47calc.com/doc/R47/Reference/R47v0_DMS-HMS.pdf	Trigonometry		TRG	
F1	→DEG	Function (monadic)	Set DEG tag or convert to DEG	If untagged, set tag to DEG (degrees) ; if tagged, convert X to DEG ; does not change Angular Display Mode ; Tag : °	Angle tagging or conversion		→DEG	
F2	→RAD	Function (monadic)	Set RAD tag or convert to RAD	If untagged, set tag to RAD (radians) ; if tagged, convert X to RAD ; does not change Angular Display Mode ; Tag : °	Angle tagging or conversion		→RAD	
F3	→GRAD	Function (monadic)	Set GRAD tag or convert to GRAD	If untagged, set tag to GRAD (gradians) ; if tagged, convert X to GRAD ; does not change Angular Display Mode ; Tag : °	Angle tagging or conversion		→GRAD	
F4	→D.MS	Function (monadic)	Set D.MS tag or convert to D.MS	If untagged, set tag to D.MS (sexagesimal degrees) ; if tagged, convert X to D.MS ; does not change Angular Display Mode ; Tag : °	Angle tagging or conversion		→D.MS	
F5	→MULπ	Function (monadic)	Set MULπ tag or convert to MULπ	If untagged, set tag to MULπ (multiple of pi radians) ; if tagged, convert X to MULπ ; does not change Angular Display Mode ; Tag : π	Angle tagging or conversion		→MULπ	
F6	DRG	Function (monadic, cyclic, nonpgm)	Degrees-radians-gradians	Add ADM tag to untagged value in X, convert tagged value to degrees-radians-gradians (cyclic) ; Info : Setting tag for complex X also sets POLAR mode for X according to ADM	Angle conversions		DRG	
fF1	sinc	Function (monadic)	Sinc	Calculate (Sine of X) / X ; Info : Integers and untagged reals are assumed to be radians	Mathematics		sinc	
fF2	sincπ	Function (monadic)	Sinc pi	Calculate (Sine of π × X) / (π × X) ; Info : Integers and untagged reals are assumed to be radians	Mathematics		sincπ	
fF3	.ms	Function (monadic, cyclic)	Minutes & seconds	Convert sexagesimal format input sequence or decimal stack value to hh:mm:ss hours or dd°mm'ss" degrees (cyclic) ; Info : NIM input treated as sexagesimal (hh/dd.mmss) format ; stack input treated as decimal value	Time/angle conversions		.ms	
fF4	.ms ⁻¹	Function (monadic)	Sexagesimal	Convert hh:mm:ss hours or dd°mm'ss" degrees to sexagesimal format number (untag) ; TI : hh/dd.mmss ; Info : puts sexagesimal NIM input of .ms back as decimal number on the stack	Time/angle conversions		.ms ⁻¹	
fF5	→R	Function (monadic, dyadic)	To rectangular	Transform polar to rectangular coordinates (dyadic, stack conventions according to flag RPH SET or CLEAR) ; transform Complex number or 2D/3D vector to rectangular notation (monadic) and set RECT tag ; TI : x : Re = ; y : Im = (RECT) ; Info : in Program Entry Mode, flag RPH determines whether →RECT _{hp} or →RECT _{cx} is stored ; vector display depends on flag 3Dxyz, for 2D rectangular vector : [ij] [v ₁ v ₂] ; 3D rectangular vector : [ijk] [v ₁ v ₂ v ₃]	Complex and coordinates	RPH	→RECT	
fF6	→P	Function (monadic, dyadic)	To polar	Transform rectangular to polar coordinates (dyadic, stack conventions according to flag RPH SET or CLEAR) ; transform Complex number or 2D/3D vector to polar notation (monadic) and set POLAR tag ; TI : r = ; θ = (POLAR) ; Info : in Program Entry Mode, flag RPH determines whether →POL _{hp} or →POL _{cx} is stored ; for a 3D vector in X, function →POLAR (→P) cycles through →SPH, then →CYL ; vector display depends on flag 3Dxyz, for 2D polar vector : [rθ;ij] [v ₁ v ₂] ^P ; 3D spherical vector : [rθ;ijk] [v ₁ v ₂ v ₃] ^P ; 3D cylindrical vector : [rθ;ijk] [v ₁ v ₂ v ₃] ^c	Complex and coordinates	RPH	→POLAR	
gF1	DEG 0	Setting (pgm)	Set ADM to DEG	Set Angular Display Mode to degrees mode (ADM = 0) ; Info : SBI ° is shown if flag SBadm is SET ; SBI ° is shown if flag SBang and SBadm is SET ; SBI : °	Angle tagging or conversion	SBadm	DEG 0	ON
gF2	RAD 0	Setting (pgm)	Set ADM to RAD	Set Angular Display Mode to radians mode (ADM = 2) ; Info : SBI ° is shown if flag SBang and SBadm is SET ; SBI : °	Angle tagging or conversion	SBang	RAD 0	OFF
gF3	GRAD 0	Setting (pgm)	Set ADM to GRAD	Set Angular Display Mode to gradians mode (ADM = 4) ; Info : SBI ° is shown if flag SBang and SBadm is SET ; SBI : °	Angle tagging or conversion	SBang	GRAD 0	OFF
gF4	D.MS 0	Setting (pgm)	Set ADM to D.MS	Set Angular Display Mode to sexagesimal degrees mode (ADM = 1) ; Info : SBI ° is shown if flag SBang and SBadm is SET ; SBI : °	Angle tagging or conversion	SBang	D.MS 0	OFF
gF5	MULπ 0	Setting (pgm)	Set ADM to MULπ	Set Angular Display Mode to multiple of pi radians mode (ADM = 3) ; Info : SBI ° is shown if flag SBang and SBadm is SET ; SBI : π	Angle tagging or conversion	SBang	MULπ 0	OFF
gF6	ATAN2	Function (dyadic)	Expanded inverse tangent	Arc tangent of Y / X	Trigonometry		ATAN2	