

TRG_R47	Trigonometry					
g-shift	→R	→P	.ms	.ms ⁻¹	sinc	sinc π
f-shift	⇒DEG	⇒RAD	⇒GRAD	⇒D.MS	⇒MULT π	
unshifted	DEG $\odot$	RAD $\odot$	GRAD $\odot$	D.MS $\odot$	MULT π $\odot$	ATAN2
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Prev menu https://47calc.com/doc/C47/Menus/C47_Menu_TRG_page_1.pdf

Next menu https://47calc.com/doc/C47/Menus/C47_Menu_TRG_MORE_page_1.pdf

Ref 1 https://47calc.com/doc/C47/Reference/C47_DMS-HMS.pdf

Level	Label	Type	FullName	Extended description	Category	Flag	Catalog	Default
Menu p1	TRG_R47	MENU	Trigonometry	Trigonometry functions ; Info : R47 menu TRG_R47 is replaced by TRG ; Ref : https://47calc.com/doc/C47/Reference/C47_DMS-HMS.pdf	Trigonometry		TRG_R47	
F1	DEG @	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 ʼ is shown if flag SBang and SBadm is SET ; SBI : °	Angle tagging or conversion	SBadm	DEG @	ON
F2	RAD O	Setting (pgm)	Set ADM to RAD	Set Angular Display Mode to radians mode (ADM = 2) ; Info : SBI ʼ is shown if flag SBang and SBadm is SET ; SBI : °	Angle tagging or conversion	SBang	RAD O	OFF
F3	GRAD O	Setting (pgm)	Set ADM to GRAD	Set Angular Display Mode to gradians mode (ADM = 4) ; Info : SBI ʼ is shown if flag SBang and SBadm is SET ; SBI : °	Angle tagging or conversion	SBang	GRAD O	OFF
F4	D.MS O	Setting (pgm)	Set ADM to D.MS	Set Angular Display Mode to sexagesimal degrees mode (ADM = 1) ; Info : SBI ʼ is shown if flag SBang and SBadm is SET ; SBI : °	Angle tagging or conversion	SBang	D.MS O	OFF
F5	MULπ O	Setting (pgm)	Set ADM to MULπ	Set Angular Display Mode to multiple of pi radians mode (ADM = 3) ; Info : SBI ʼ is shown if flag SBang and SBadm is SET ; SBI : π°	Angle tagging or conversion	SBang	MULπ O	OFF
F6	ATAN2	Function (dyadic)	Expanded inverse tangent	Arc tangent of Y / X	Trigonometry		ATAN2	
fF1	→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	
fF2	→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	
fF3	→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	
fF4	→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	
fF5	→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	
fF6								
gF1	→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 _{ex} 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	
gF2	→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 _{ex} 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] _M [v ₁ v ₂ v ₃] ^a ; 3D cylindrical vector : [rθ;ijk] [v ₁ v ₂ v ₃] ^c	Complex and coordinates	RPH	→POLAR	
gF3	.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	
gF4	.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	
gF5	sinc	Function (monadic)	Sinc	Calculate (Sine of X) / X ; Info : Integers and untagged reals are assumed to be radians	Mathematics		sinc	
gF6	sincπ	Function (monadic)	Sinc pi	Calculate (Sine of π × X) / (π × X) ; Info : Integers and untagged reals are assumed to be radians	Mathematics		sincπ	