

TRG	Trigonometry MENU (M) - cat : TRG	Trigonometry and hyperbolic functions				Category: Mathematics File: C47_Menu_TRG...
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Menu	TRG	1	2	3	4	5	6
3	g-shift	DEG (°)	RAD ()	GRAD ()		→R	→P
2	f-shift	sinc	sincπ	ATAN2	.ms	.d	.ms ⁻¹
1	unshifted	→DEG	→RAD	→GRAD	→D.MS	→MULπ	DRG
Page	1	F1	F2	F3	F4	F5	F6

Ref	DMS-HMS
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TRG	Page 1	Full name	Description (extended)	Type	Flag name	Additional information	Catalog	Default	Status
F1	→DEG	Set DEG tag or convert to DEG	If untagged, set tag to DEG ; if tagged, convert X to DEG ; does not change ADM	Function (monadic)		Tag : °	→DEG		
F2	→RAD	Set RAD tag or convert to RAD	If untagged, set tag to RAD ; if tagged, convert X to RAD ; does not change ADM	Function (monadic)		Tag : °	→RAD		
F3	→GRAD	Set GRAD tag or convert to GRAD	If untagged, set tag to GRAD ; if tagged, convert X to GRAD ; does not change ADM	Function (monadic)		Tag : °	→GRAD		
F4	→D.MS	Set D.MS tag or convert to D.MS	If untagged, set tag to D.MS ; if tagged, convert X to D.MS ; does not change ADM	Function (monadic)		Tag : ° ' "	→D.MS		
F5	→MULπ	Set MULπ tag or convert to MULπ	If untagged, set tag to MULπ ; if tagged, convert X to MULπ ; does not change ADM	Function (monadic)		Tag : °π	→MULπ		
F6	DRG	Degrees-radians-gradians	Add ADM tag to untagged value in X, convert tagged value to degrees-radians-gradians (cyclic)	Function (cyclic ; monadic)		Info : Setting tag for complex X also sets POLAR mode for X according to ADM	DRG		

fShifted F1	sinc	Sinc	(Sine of X) / X	Function (monadic)		Info : Integers and untagged reals are assumed to be radians	sinc		
fShifted F2	sincπ	Sinc pi	(Sine of π * X) / (π * X)	Function (monadic)		Info : Integers and untagged reals are assumed to be radians	sincπ		
fShifted F3	ATAN2	Expanded inverse tangent	Arc tangent of Y / X	Function (dyadic)			ATAN2		
fShifted F4	.ms	Minutes & seconds	Convert sexagesimal format input sequence or decimal stack value to hh:mm:ss hours or dd:mm:ss" degrees (cyclic)	Function (cyclic ; monadic)		Info : NIM input treated as sexagesimal (hh/dd:mm:ss) format ; stack input treated as decimal value	.ms		
fShifted F5	.d	Decimal	Convert to decimal (real) value ; clear fraction mode, base mode ; convert degrees / hours / date to real ; convert NIM input to date (according to date format set and implied conversion set by YY) ; convert complex number with zero imaginary part to real number ; in Program Entry Mode →REAL is entered	Function (monadic)		TI (degrees ; hours ; date) : decimal ² ; decimal h : yyyy-mm-dd			
fShifted F6	.ms ⁻¹	Sexagesimal	Convert hh:mm:ss hours or dd:mm:ss" degrees to sexagesimal format number (untag)	Function (monadic)		TI : hh/dd:mm:ss ; Info : puts sexagesimal NIM input of .ms back as decimal number on the stack	.ms ⁻¹		

gShifted F1	DEG	Set ADM to DEG	Set ADM to degrees mode	Setting (pgm)	<no flag>	SBI : ° ; Info : SBI depends on SBang	DEG (°)	ON	Radiobutton
gShifted F2	RAD	Set ADM to RAD	Set ADM to radians mode	Setting (pgm)	<no flag>	SBI : ° ; Info : SBI depends on SBang	RAD ()	OFF	Radiobutton
gShifted F3	GRAD	Set ADM to GRAD	Set ADM to gradians mode	Setting (pgm)	<no flag>	SBI : ° ; Info : SBI depends on SBang	GRAD ()	OFF	Radiobutton
gShifted F4	<empty>								
gShifted F5	→R	To rectangular	Transform polar to rectangular coordinates (stack conventions according to flag RP _{pp}) ; transform complex number to rectangular notation (monadic) and set RECT tag	Function (monadic ; dyadic)		TI : x : Re = ; y : Im = (2 stack levels)	→RECT		
gShifted F6	→P	To polar	Transform rectangular to polar coordinates (stack conventions according to flag RP _{pp} or ADM tag) ; transform complex number to polar notation (monadic) and set POLAR tag	Function (monadic ; dyadic)		TI : r = ; θ = (2 stack levels)	→POLAR		