HHC 2025

THE RPN JOURNEY CONTINUES

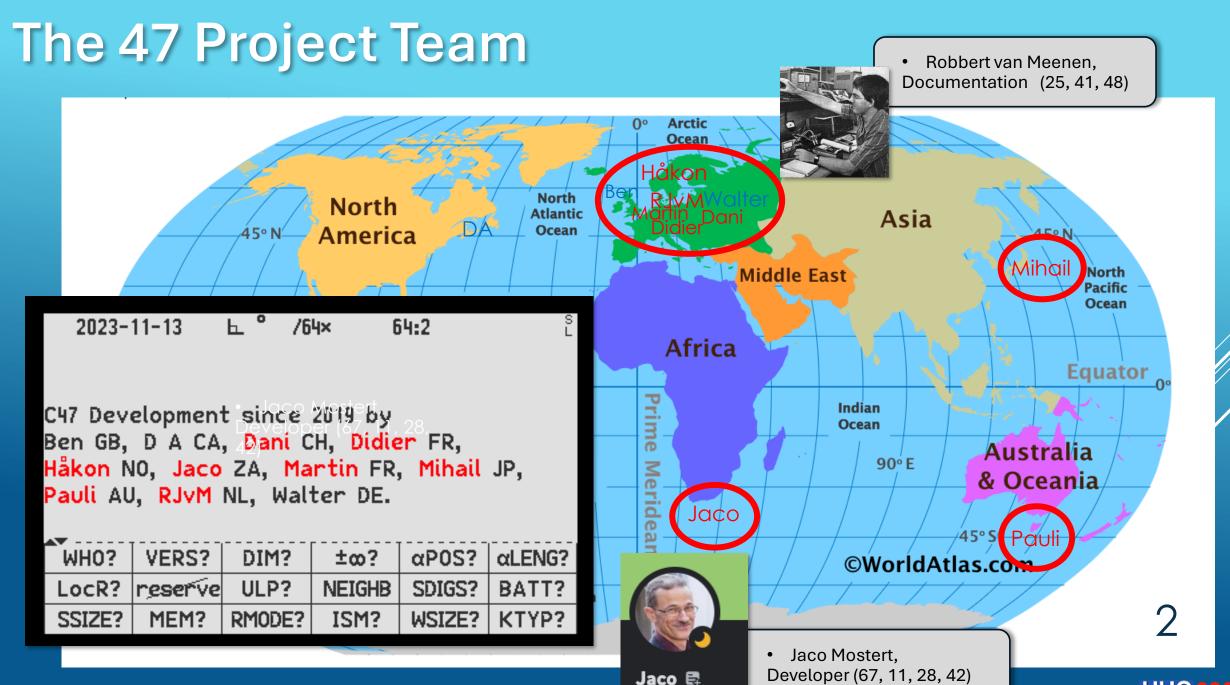
Gary J. Carter

Fairview, Texas

HP35, HP41c, HP16c, HP50g

DM41x, DM32, DM42n, C47





What is an R47?

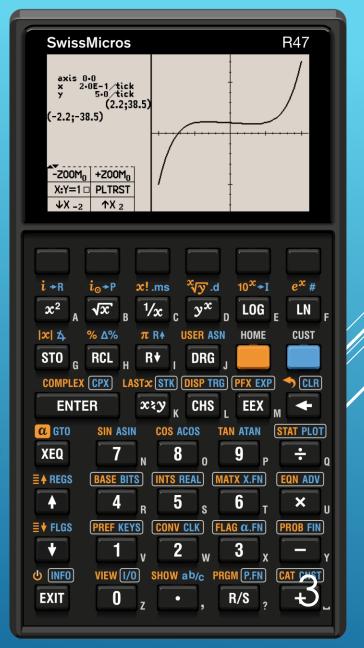
The next RPN scientific

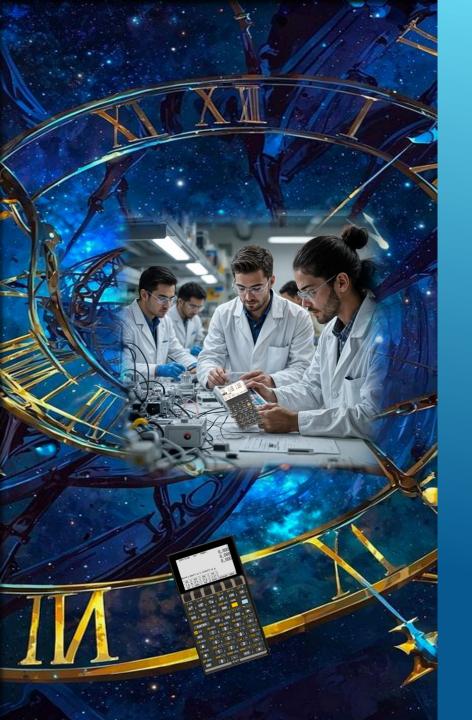
The R47 is a powerful, RPN-based programmable scientific calculator with an extensive feature set. Its software has been refined over many years, born from the vision of a *dream* calculator developed by a team of engineers and mathematicians, all dedicated calculator enthusiasts.

Background and lineage

Community-developed and manufactured by SwissMicros, the R47 runs firmware that is functionally identical to that of the C47, which offers a way to transform a DM42n into a feature-rich RPN calculator using a dedicated keypad overlay.

Inspired by the <u>HP-41C</u> and <u>HP-42S</u>, the R47 builds on this foundation with a redesigned keypad featuring two shift keys, preserving a familiar feel while being entirely new in execution.





If a new, advanced RPN scientific handheld calculator were to be developed today ...

... What would HP do?

What can the R47 Do?



- ► high-resolution display with 4 stack levels, 3 rows of menus, and status bar always shown
- ▶ 34 digits of precision; exponents to ±6144; up to 1000 named variables
- ▶ full mathematical support for real and complex numbers (rectangular and polar)
- scientific calculator functions like trigonometry, hyperbolics, logs, and antilogs
- support for arbitrary bases from 2 to 16 and bitwise operations
- ► fraction support
- ► matrix/vector math with full screen matrix editing capability
- 2-variable STATISTICS with best-fit modelling and basic plotting
- equation writer with support for solving, numeric integration and derivatives, and basic plotting
- time value of money operations
- ► keystroke programmable with tests, flags, looping, and branching
- date and time math as well as built-in clock
- built-in Unit conversions and library of Constants
- ▶ user-customizable keyboard and softkey-based menus 5
- ► I/O to built-in flash memory or via USB for backing up and restoring states, programs, and configuration



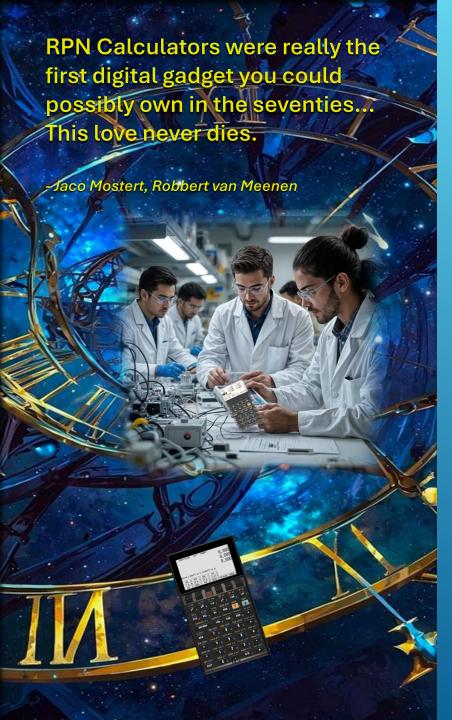
R47 Feature Counts

Count of Item		INCLUDE -T		
MainType -1	SubType v	TRUE	FALSE	Grand Total
Command	internal	5	13	18
	nonpgm	39	4	43
	special	1		1
	strike	9	1	10
	TAM	13		13
	legacy		2	2
	PEM	23		23
	submnu	2		2
	Command	344	13	357
	cyclic; nonpgm	1		1
	HW	6	1	7
	попрвін , пуч	1		1
Command Total		444	34	478

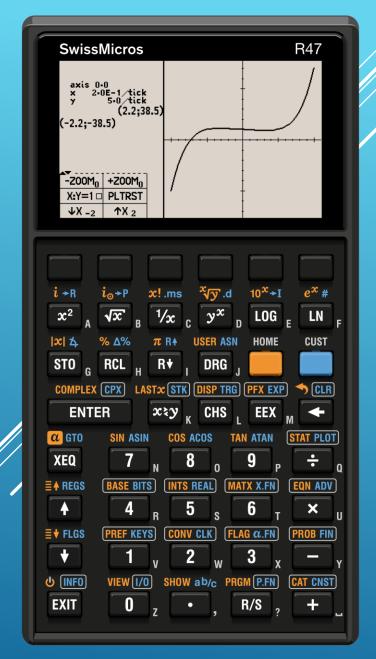
Function	legacy	7		7
	proposal		1	1
	linked; monadic	186		186
	legacy; monadic	4		4
	triadic	12		12
	monadic	249	1	250
	cyclic; monadic	3		3
	internal; strike		1	1
	monadic; dyadic	2		2
	dyadic	63		63
	madic	1		1
Function Total		527	3	530

MENU	ASM	8		8
	internal	1	2	3
	MENU	123	4	127
	strike	2		2
	TAM	14		14
	item	17		17
	43		4	4
	47	2		2
	ASM; legacy		2	2
	TAM; ASM	3		3
	43S		1	1
	TAIVI; proposal		1	1
MENU Total		170	14	184

Setting	cyclic	2		2
	internal		1	1
	pgm	119	2	121
	Setting	70	16	86
	SIM	1		1
	strike	3		3
	legacy	2		2
	pgm; deprecated		1	1
	pgm; stack	2		2
	cyclic; stack	1		1
	pgm; HW	3		3
	TTVV	Z		2
Setting Total		205	20	225



Where did **R47** come from?





1972 HP-35 Released

First RPN Scientific Handheld Calculator

HEWLETT hp PACKARD

1979 **HP-41C** Released

First Alphanumeric Programmable Scientific Handheld Computer

1982

HP-12C, HP-15C, HP-16C Released

Voyager Series Calculators

1987

HP-28C Released first Graphing, first CAS

1988

HP-42S Released **Most Advanced** Pioneer Series



SwissMicros

2011

SwissMicros Founded

2010

HP-30b Introduced

2009

Free42 Open-Source Calculator Introduced

2008

HP-20b Introduced

2011

WP34S Open-Source Project Introduced

2015

WP34C produced on

HP20b/HP-30b

Evolutionary Timeline



SwissMicros DM42 Introduced using Free42

2019

WP43C Open-Source Project Introduced targeting SwissMicros DM42

2021

WP43 Prototype on SM DM42





R47 2nd Prototype Hardware produced by SwissMicros

2024

Keyboard Layout Defined

R47 Prototype produced by SwissMicros

2023

C47 Developed for SwissMicros **DM42 Hardware Platform**

2022

C43 Open-Source Forked

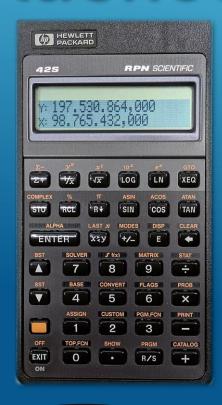






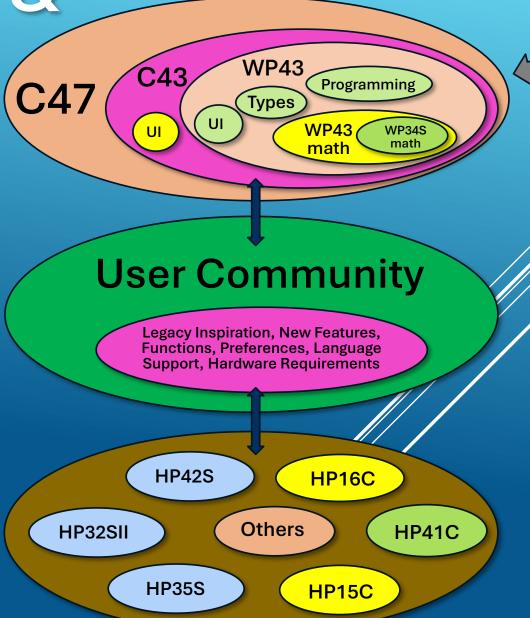
Inspiration &

Influence







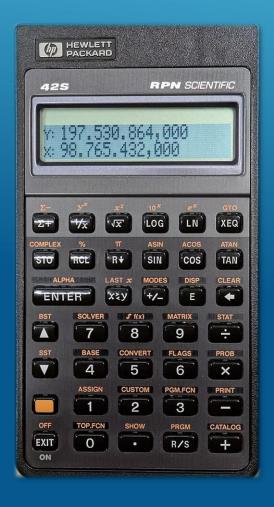


SwissMicros



R47

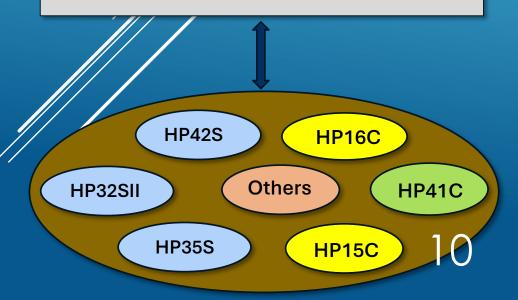
Inspiration & Influence



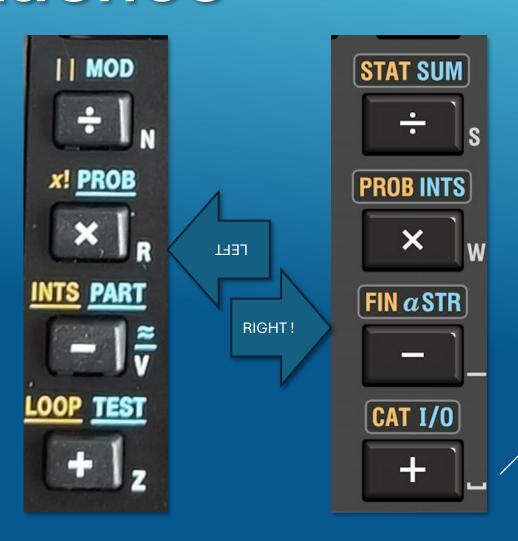




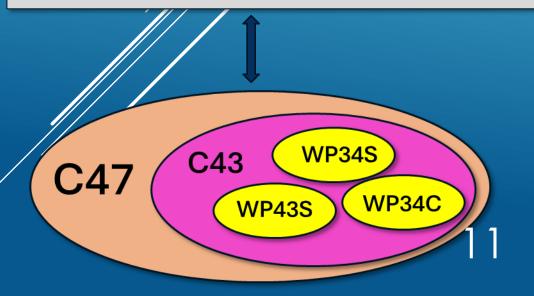
- HP41C/X operation
- HP42S physical appearance
- HP15C physical appearance
- HP16C BASE operation
- HP35S complex entry
- HP32SII direct entry



Inspiration & Influence



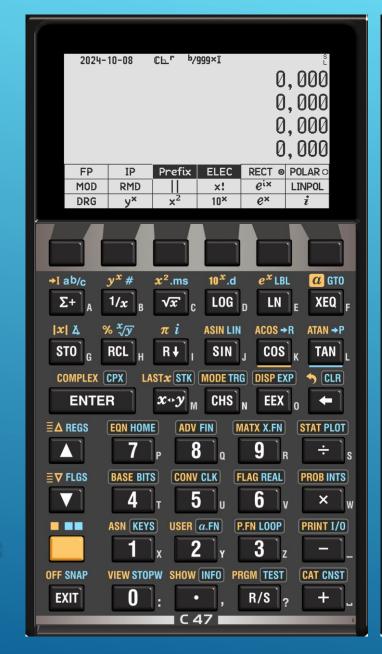
- WP34S underlying code
- WP43S complete system not layout
- WP43C operator location ÷×-+
- C43 trying to keep compatibility
- C47 more HP influence



Where is the 47 Family Going?

- Parallel 47 Platform
- Simultaneous Development
- Identical Software
- Perfect Synergy

- C47 Retrofit Bezel for SM DM42
- R47 SM Product built to 47 spec
- Smartphone App?





47 User Interface

Design and Principles

- Explainability
- Use Case and Duplication
- Conformity and Layout
- Familiarity and Ease of Use
- Style, Taste, and Rhythm
- Logic
- Separation (e.g. Radio Buttons, Check Boxes)
- Navigation (i.e. reduce up/dn)

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https://47calc.com/documentation.html

DMXmax

CAPS [+]

page 1

page 1

page 1

page 1

Catalog:

Catalog:

Catalog:

Catalog:

Catalog:

NUM []

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How to document the 47 flexibility?

The 47 calculator has different layouts:

DM42, C47, R47, D, E, N, V47

The important stuff, whatever that is

The hard to change things



The simulator has to accomodate different PC keyboards

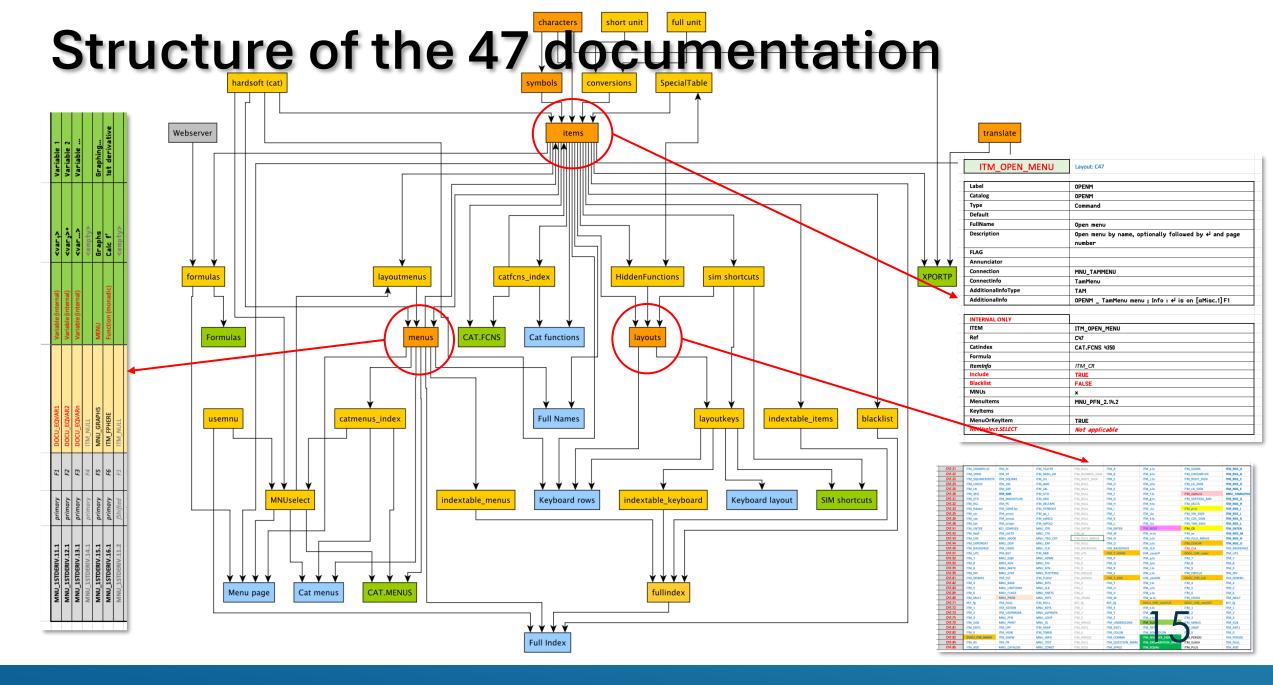
Workbook:

Sheets 85
Cells with data 1024075
Tables 0
PivotTables 32
Formulas 829711

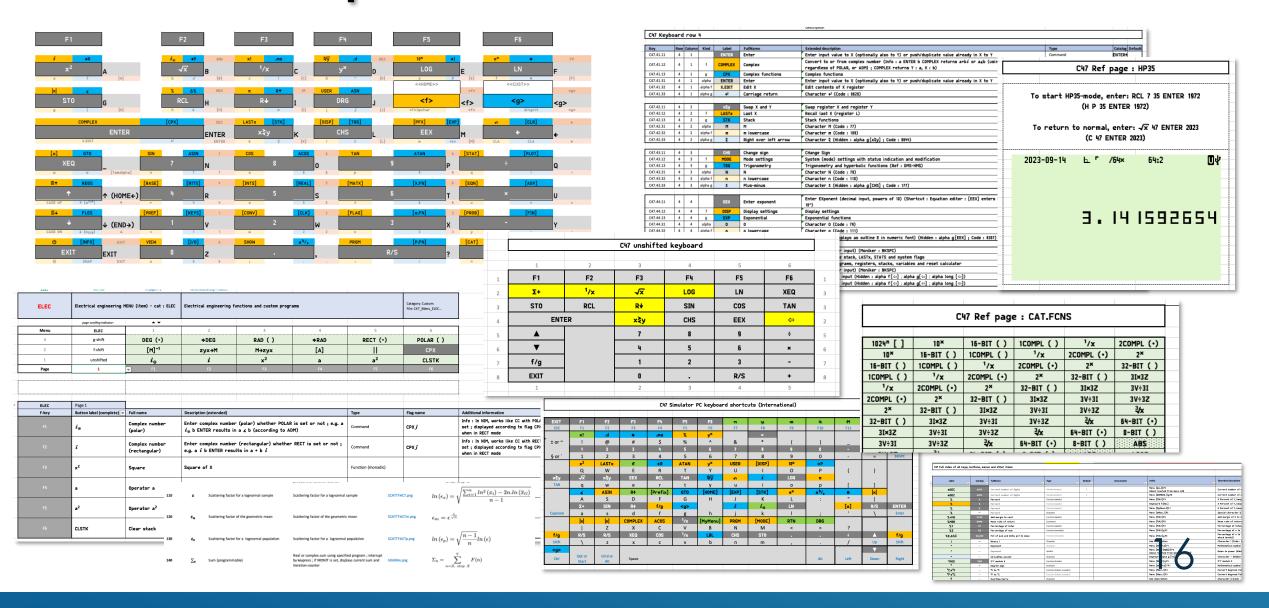


The user interface is highly customisable

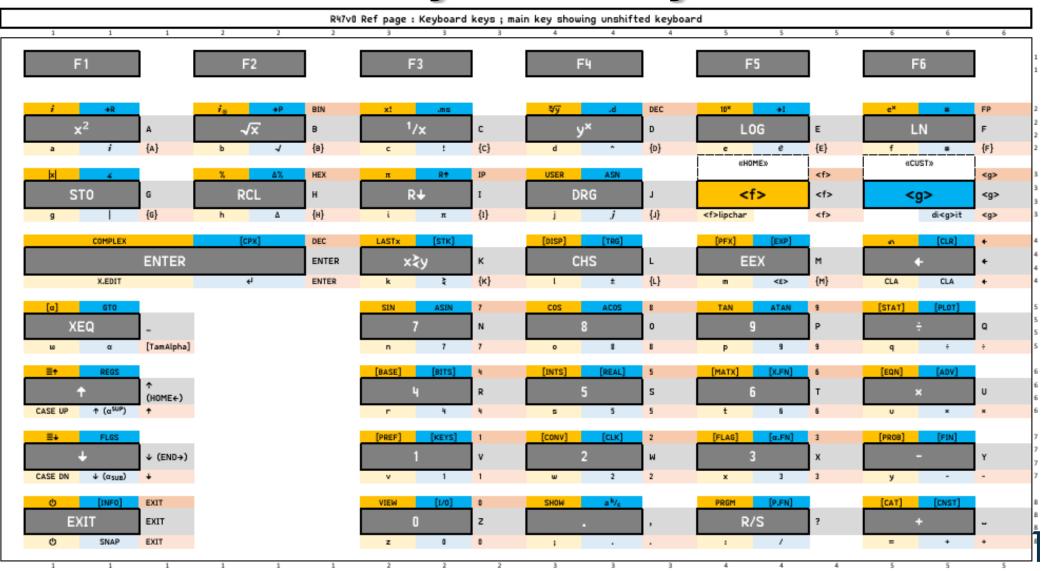
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Some examples of the 47 documentation



R47 Keyboard layout



R47 menu page description (ELEC menu p1)

ELEC	Itolilla	in pages = 4	WINDINIACSERUIG = INACOS							O47_INICIN	ccc_page_1
ELEC	Electrical engineering !	MENU (item) - cat : ELEC	Electrical engineering f	unctions and custom progr	ams		Category: Custom File: C47_Menu_ELEC				
	page scrolling indicator :	A T									
Menu	ELEC	1	2	3	4	5	6				
3	g-shift	DEG (*)	⇒DEG	RAD ()	⇒RAD	RECT (+)	POLAR ()				
2	f-shift	[M] ⁻¹	zyx→M	M→zyx	[A]	П	СРХ				
1	unshifted	i_{\odot}	i	x²	a	a ²	CLSTK				
Page	1	▼ F1	F2	F3	F4	F5	F6				
		<u> </u>									
ELEC	Page 1										
F-key	Button label (complete)	Full name	Description (extended)			Туре	Flag name	Additional information	Catalog	Default	Statu
	i_{\odot}	Complex number (polar)		r (polar) whether POLAR n a ∡ b (according to Aī		Command	$\mathtt{CPX}j$	Info: In NIM, works like CC with POLAR set; displayed according to flag CPX j when in RECT mode	op_i₀		
F2	i	Complex number (rectangular)	Enter complex number	r (rectangular) whether olts in a + b i	· RECT is set or not ;	Command	CPX <i>j</i>	Info : In NIM, works like CC with RECT set ; displayed according to flag CPX j when in RECT mode	op_ <i>i</i>		
F3	x²	Square	Square of X			Function (monadic)			ײ		
F4	a	Operator a	Insert value of 1 ∠ 12			Command			op_a		
	2	Operator a ²	Insert value of 1 ∠ 24			Command			op_a ²		
	a ²	operator a			Clear all stack data						

47 Function Catalog (CAT.FCNS)

C47 Ref page : CAT.FCNS													
1024° []	10×	16-BIT ()	1COMPL ()	1/x	2COMPL (+)								
10×	16-BIT ()	1COMPL ()	1/x	2COMPL (+)	2×								
16-BIT ()	1COMPL ()	1/x	2COMPL (+)	2×	32-BIT ()								
1COMPL ()	1/x	2COMPL (+)	2×	32-BIT ()	3I×3Z								
1/x	2COMPL (+)	2×	32-BIT ()	3I×3Z	3V÷3I								
2COMPL (+)	2×	32-BIT ()	3I×3Z	3V÷3I	3V÷3Z								
2×	32-BIT ()	3I×3Z	3V÷3I	3V÷3Z	³∕x								
32-BIT ()	3I×3Z	3V÷3I	3V÷3Z	∛x	64-BIT (+)								
3I×3Z	3V÷3I	3V÷3Z	3∕x	64-BIT (+)	8-BIT ()								
3V÷3I	3V÷3Z	∛x	64-BIT (+)	8-BIT ()	ABS								
	3.												

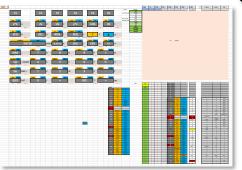
C47 Simulator PC keyboard shortcuts (Intl)

F2 F2 .d @ 2 2 LASTx W × ₹y w	F3 F3 # # 3 3 E E EEX e	F4 .ms \$ 4 ->R RCL	F5 F5 % % 5 5 ATAN T TAN	F6 F6 y* 6 6 y* Y Y	F7 & 7 USER U	vts (Intern	-m F9 (g 9 10* O LOG	-k F10) 0 →P P π	-M F11	F12 + + .d =	F13
F2 .d @ 2 2 LAST× W x≷y w	# # # 3 3 4 E EEX e	F4 .ms \$ 4 ->R R RCL r	% % 5 5 ATAN T TAN	F6 y* ^ 6 6 y* Y Y	8. 7 7 USER U	# 8 8 [DISP]	(g 9 10* O LOG) 0 0 →P P	F11 	+ .d	1
.d @ 2 2 LAST× W ×≷y	# # 3 3 e E E EEX	.ms \$ 4 →R R R RCL	% 5 5 ATAN T	y* ^ 6 y* Y	& 7 7 USER U	*	(9 10* O LOG) 0 →P P	-	+ .d	1
@ 2 2 LAST× W x≷y w	# 3 3 • • E EEX e	\$ 4 ->R R RCL r	% 5 5 ATAN T TAN	^ 6 9× Y	7 7 USER U	* 8 8 [DISP]	9 10 ^x O L0G	0 →P P	-	+ .d	
2 2 LAST× W ×≷y w	3 3 e E EEX e	4 →R R RCL	5 5 ATAN T TAN	6 9× Y ¥√y	7 7 USER U	8 8 [DISP]	9 10 ^x O L0G	0 →P P	-	.d	
2 LAST× W ×≷y w	3 e E EEX e	4 →R R RCL	5 ATAN T TAN	6 y* Y ₹/y	7 USER U	8 [DISP] I	9 10 ^x O L0G	0 →P P			
LASTx W x≷y w	e E EEX e	→R R RCL	ATAN T TAN	y* Y ₹/ ÿ	USER U	[DISP]	10* O LOG	→P P	- {	}	BKSPC
W x≹y w	E EEX e	R RCL r	TAN	Υ */ ÿ	U S	l l	O L0G	Р	{	}	
x≹y W	EEX e	RCL r	TAN	∜ ÿ	'n	i :	LOG		{	}	
w	е	r				i		π			
		'	t	v	- 11	:				_	
	DA			,	u		0	р	[]	
ASIN	KT	[Prefix]	GTO	[HOME]	[EXP]	[STK]	e×	a ^b / _c	#	x	
S	D	F	G	Н	J	К	L	:	"	1	
SIN	R∳	f/g	<g></g>		\boldsymbol{i}	i_{\odot}	LN		[a]	R/S	ENTER
s	d	f	g	h	j	k	1	;	1	\	Enter
x	COMPLEX	ACOS	1/x	[MyMenu]	PRGM	[MODE]	RTN	DRG			
Z	Х	С	٧	В	N	М	<	>	?		
R/S	XEQ	COS	1/x	LBL	CHS	STO			÷	Λ	f/g
z	х	С	v	b	n	m	,		/	Up	Shift
										V	
	Space							Alt	Left	Down	Right
	Z R/S z Cmd or	Z X R/S XEQ Z X Cmd or Space	Z X C R/S XEQ COS z x c Cmd or Space	Z X C V R/S XEQ COS 1/x Z X C V Cmd or Space	Z X C V B R/S XEQ COS 1/x LBL z X C V b	Z X C V B N R/S XEQ COS 1/x LBL CHS z X C V b n	Z X C V B N M R/S XEQ COS 1/x LBL CHS STO z X c V b n m	Z X C V B N M < R/S XEQ COS 1/x LBL CHS STO . z x c v b n m ,	Z X C V B N M < > R/S XEQ COS 1/x LBL CHS STO Z X C V b n m , . Cmd or Space	Z X C V B N M < > ? R/S XEQ COS 1/x LBL CHS STO	Z X C V B N M <

47 Full index

,							
C47 Full index of all keys	, buttons, menu	s and other items					
Label	▼ Catalog ▼	FullName	Type	Default ▼	Annunciator	Index	Extended description
#DEC	#DEC	Current number of digits	Variable (longint)	3		Menu [ALL.2]F5 (Also) reached from menu VAR	Current number o
#DEC	#DEC	Current number of digits	Variable (longint)	3		Menu [NUMBRS.1] g F6	Current number o
%	%	Percent	Function (dyadic)			Menu [FIN.1] F3	X Percent of Y, ke
%	%	Percent	Function (dyadic)			Keyboard f [RCL]	X Percent of Y, ke
%	%	Percent	Function (dyadic)			Menu [MyMenu.2]F1	X Percent of Y, ke
%		Percent	Character			Menu (aMisc.1) F5	Special character
%+MG	%+MG	Add margin to cost	Function (dyadic)			Menu [FIN.1] F5	Add margin of X to
%MRR	%MRR	Mean rate of return	Command			Menu [FIN.1] F6	Mean rate of retu
%Т	%т	Percentage of total	Function (dyadic)			Menu [FIN.1] F2	Percentage of tot
%Σ	% x	Percentage of sum	Function (monadic)			Menu [FIN.1] g F2	Percentage of x t
%Σ,Δ%≅	% Σ, ∆%≅	Pct of sum and Delta pct to mean	Function (monadic)			Menu [FIN.1] g F3	Percentage of x t stack levels))
1		Binary 1	Character			See description	Character (Code
^		Exponent	Character			Menυ [αMath.2]F1	Mathematical symb
^		Exponent	Symbol			Menu [EDIT [EQN].1]F3 (Also) reached from menu NEW [EQN]	Raise to power (Hi
^		Circumflex accent	Character			Keyboard alpha g [¹/x]	Character ^ (Hidde
^MOD	^MOD	Z^Y modulo X	Function (triadic)			Menu [INTS.1] g F4	Z^Y modulo X
0		Degree sign	Character			Menu [αMath.3] f F1	Mathematical symb
°C → °F		°C to °F	Function (linked ; monadic)			Menu [Misc:.1] F3	Convert degrees
°F→°C		"F to "C	Function (linked ; monadic)			Menu [Misc:.1] F4	Convert degrees
0		Overflow Carry	Character			See description	Character 2 (Code

Interaction: design ⇔development ⇔doc





Example 1: support discussion of new keyboard layout R47



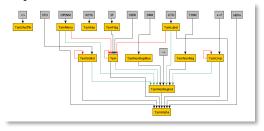
Example 3: what Greek characters to support in the simulator



Example 2: menu redesign mockups & import into code base

P-PH MES ERR EXTEN ARRAY POIL POINT

P-PRI CASE BACK XECUSOR BTN+1 LOSS TEXT



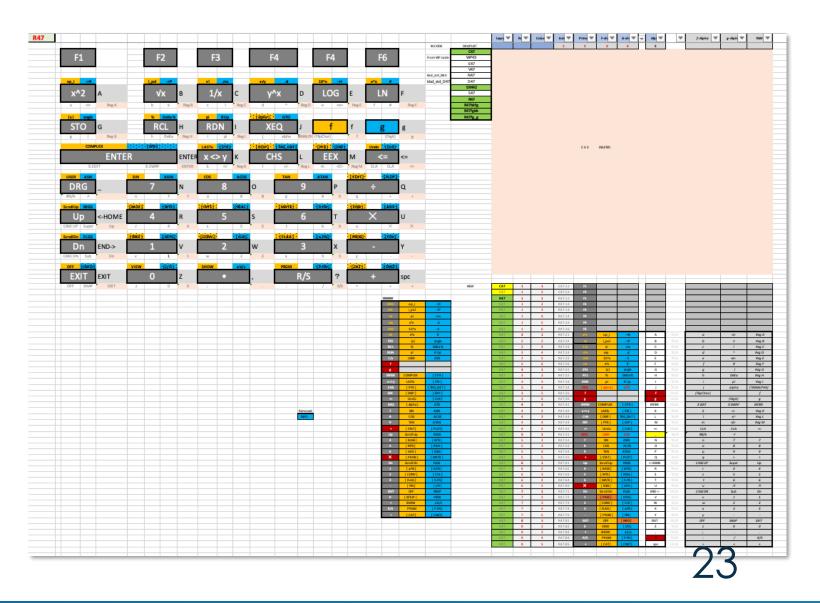


Example 4: redesign TAM menu workflow



1: Support Discussion of R47 Layout





2: Menu Redesign & Import into Code Base



															α.EDIT				P.FN3	
.FN				REM	LOOP	TEST	P.FN					LOOP	TEST	P.FN					LOOP	
rrent	LBL	GTO	XEQ	RTN	P.FN2	P.FN1	updated	LBL	GT0	XEQ	RTN	END	P.FN1	updated	LBL	GTO	XEQ	RTN	END	
	INPUT	AVIEW	PROMPT	MSG	ERR	PAUSE		INPUT	AVIEW	PROMPT	MSG	ERR	α.EDIT		KEYG	KEYX	MENU	CLMENU		
.FN1	SKIP	BACK	XEQ.SKP	RTN+1	CASE	TICKS	P.FN1	SKIP	BACK	XEQ.SKP	RTN+1	LOOP	TEST	P.FN1	MSG	ERR	EXITall	AGRAPH	PIXEL	
irrent	LBL	GTO	XEQ	RTN	END	P.FN2	updated	LBL	GT0	XEQ	RTN	END	P.FN2	updated	INPUT	AVIEW	PROMPT	PAUSE	TICKS	
	MENU	KEYG	KEYX	VarMNU	MVAR	PUTK		MENU	KEYG	KEYX	VarMNU	MVAR	PUTK							
.FN2	CLMENU	R-COPY	R-SORT	R-SWAP	R-CLR	EXITall	P.FN2	CLMENU	OPENM	CASE	PAUSE	TICKS	EXITall	P.FN2	R-COPY	R-SORT	R-SWAP	R-CLR		
ırrent	AGRAPH	PIXEL	POINT	LocR	PopLR	P.FN	option1	LBL	GTO	XEQ	RTN	END	P.FN3	updated	LocR	PopLR	OPENM	VarMNU	MVAR	
							P.FN3	AGRAPH LocR	PIXEL PopLR	POINT R-COPY	R-SORT	R-SWAP	R-CLR	P.FN3	α.EDIT	BACK	SKIP XEQ.SKP	RTN+1	LOOP	
							option1	LBL	GT0	XEQ	RTN	END	P.FN	updated	LBL	GTO	XEQ	RTN	END	
	We should le more order	ook at how a t would be gre	could go to P.F third P.FN3 can at in P.FN1, 2 &	improve real 3.																
	menu). That	t is, those com	commands in mands on F1-F be copied on th	4 should ALSO																

MNU	MENU	Page I	(ey L	ine Index	Shift	F_key	ITEM 🔻 S	Status	1		0	1		2	3		4		5
MNU_PFN	P.FN	1	1	1 MNU_PFN.11.1	primary		ITM_XEQ		2		ITM_XEQ	, ITM_XEQP1 ,	IT	M_GTO ,	ITM_LE	BL ,	ITM_END	, -MNU	PFN_MORE
MNU_PFN	P.FN	1	2	1 MNU_PFN.12.1	primary	F2	ITM_XEQP1		8		ITM_RTN	, ITM_RTNP1 ,	ITI	M_CASE ,	ITM_SK	IP ,	ITM_BACK	, IT	M_LocR
MNU PFN	P.FN	1	3	1 MNU PFN.13.1	primary	F3	ITM GTO		14		ITM INPUT	, ITM MSG ,	IT	M ERR	ITM TIC	CKS ,	ITM_PAUSE	, ITN	M POPLR
MNU_PFN	P.FN	1	4	1 MNU_PFN.14.1	primary	F4	ITM_LBL				_							, 11	
MNU_PFN	P.FN	1	5	1 MNU_PFN.15.1	primary	F5	ITM_END	ITM XEQ,	ITA	M V	EQP1,	ITM GTO,		ITM LBL,		ITM END,		-MNU PFN N	AODE.
MNU_PFN	P.FN	1	6	1 MNU_PFN.16.1	primary	F6	MNU_PFN_MORE	ITM_RTN,			TNP1,	ITM_CASE,		ITM_SKIP,		ITM_END,		ITM_LocR,	vione,
MNU_PFN	P.FN	1	1	2 MNU_PFN.11.2	fShifted	F1	ITM_RTN	ITM INPUT			ASG,	ITM ERR,		ITM_SKIT,		ITM PAUSE,		ITM POPLR,	
MNU_PFN	P.FN	1	2	2 MNU_PFN.12.2	fShifted	F2	ITM_RTNP1	TTWI_INFOT,	1118	IVI_IV	1130,	IIIVI_ERR,		TTWI_TTCK3,		TTWI_FAUSE,		ITIWI_FOFER,	
MNU_PFN	P.FN	1	3	2 MNU_PFN.13.2	fShifted	F3	ITM_CASE	,	,			,		,		,		,	
MNU_PFN	P.FN	1	4	2 MNU_PFN.14.2	fShifted	F4	ITM_SKIP	,	,			,		,		,		,	
MNU_PFN	P.FN	1	5	2 MNU_PFN.15.2	fShifted	F5	ITM_BACK	,	,			,		,		,		,	
MNU_PFN	P.FN	1	6	2 MNU_PFN.16.2	fShifted	F6	ITM_LocR	,	,			,		,		,		,	
MNU_PFN	P.FN	1	1	3 MNU_PFN.11.3	gShifted	F1	ITM_INPUT		59			,		,		,		,	
MNU_PFN	P.FN	1	2	3 MNU_PFN.12.3	gShifted	F2	ITM_MSG		65			,		,		,		,	
MNU_PFN	P.FN	1	3	3 MNU_PFN.13.3	gShifted	F3	ITM_ERR		71			,		,		,		,	
MNU_PFN	P.FN	1	4	3 MNU_PFN.14.3	gShifted	F4	ITM_TICKS			Т									
MNU_PFN	P.FN	1	5	3 MNU_PFN.15.3	gShifted	F5	ITM_PAUSE		78			,		,		,		,	
MNU_PFN	P.FN	1	6	3 MNU_PFN.16.3	gShifted	F6	ITM_POPLR		84			,		,		,		,	
									90			,		,		,			



ITM_XEQ,	ITM_XEQP	1,	ITM_GTO,	ITM_LBL,	ITM_END,	-MNU_PFN_MORE,
ITM_RTN,	ITM_RTNP1		ITM_CASE,	ITM_SKIP,	ITM_BACK,	ITM_LocR,
ITM_INPUT,	ITM_MSG,		ITM_ERR,	ITM_TICKS,	ITM_PAUSE,	ITM_POPLR,
,	,	,		,		
4	4			1	1	



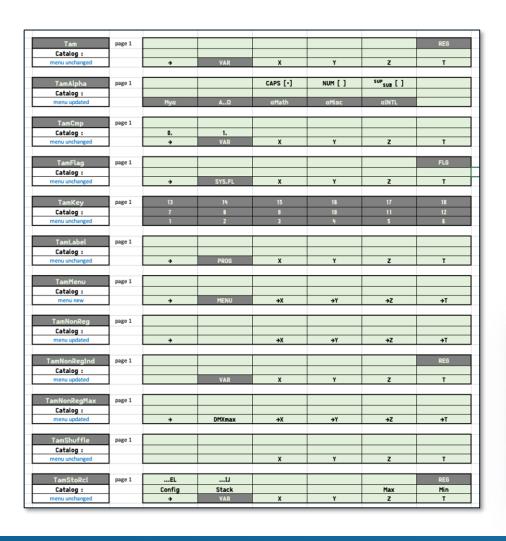
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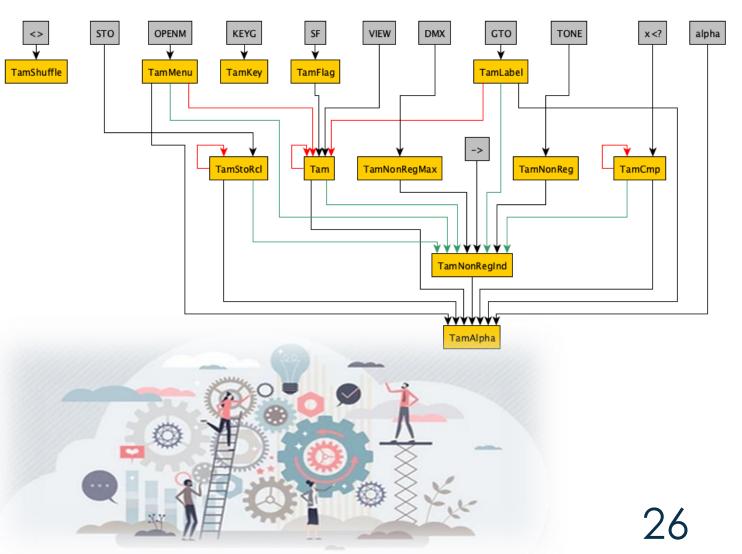
3: What Greek Characters for the Simulator



A	В	С	D	AM	AN	AO	AP	AQ	AR	AS
				948	949	950	951	952	953	954
ltem •	Label	▼ Type	▼ GREEK -T	δ	ε	ζ	η	θ	ι	к
CST_56	α _F	Constant (#55)	TRUE	FALSE						
CST_58	γем	Constant (#57)	TRUE	FALSE						
CST_59	γ _P	Constant (#58)	TRUE	FALSE						
CST_60	Δν _{Cs}	Constant (#59)	TRUE	FALSE						
CST_61	ε_0	Constant (#60)	TRUE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE
CST_62	λ _c	Constant (#61)	TRUE	FALSE						
CST_63	λ _{Cn}	Constant (#62)	TRUE	FALSE						
CST_64	λ _{CP}	Constant (#63)	TRUE	FALSE						
CST_65	μ_0	Constant (#64)	TRUE	FALSE						
CST_66	$\mu_{\mathtt{B}}$	Constant (#65)	TRUE	FALSE						
CST_67	μe	Constant (#66)	TRUE	FALSE						
CST_68	μ_e/μ_B	Constant (#67)	TRUE	FALSE						
CST_69	μ_n	Constant (#68)	TRUE	FALSE						
CST_70	μρ	Constant (#69)	TRUE	FALSE						
CST_71	μ_{o}	Constant (#70)	TRUE	FALSE						
CST_72	μ_{ν}	Constant (#71)	TRUE	FALSE						
CST_73	G _B	Constant (#72)	TRUE	FALSE						
CST_74	φ	Constant (#73)	TRUE	FALSE						
CST_75	Ψ0	Constant (#74)	TRUE	FALSE						
CST_76	ω _⊕	Constant (#75)	TRUE	FALSE						
CST_80	ξ _B	Constant (#79)	TRUE	FALSE						
CST_81	δ _S	Constant (#80)	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALST	ALSE
CST_82	μο	Constant (#81)	TRUE						FASE	7

4: Redesign TAM Menu Workflow





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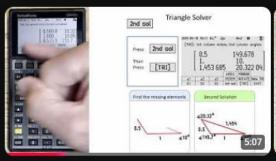
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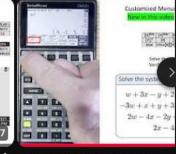
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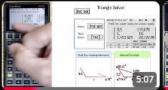
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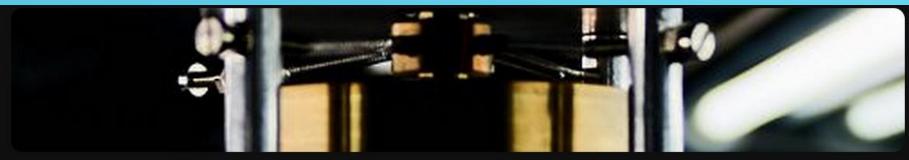
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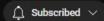




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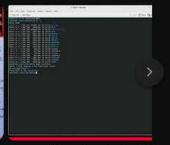
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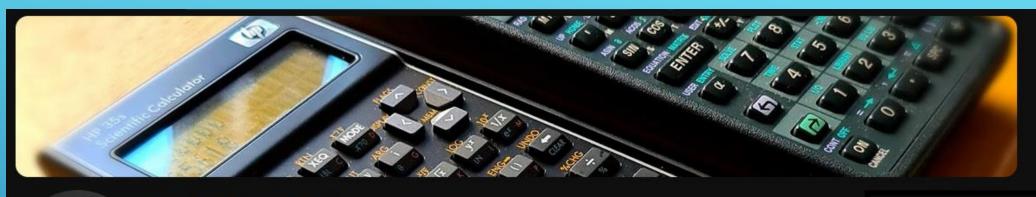
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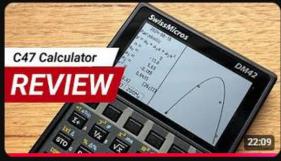
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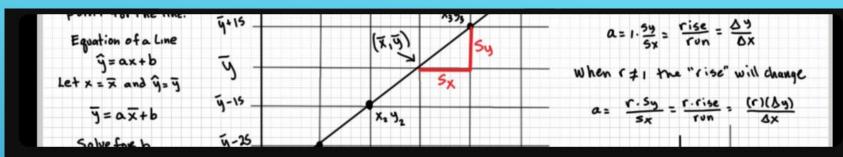
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