

POLYNROM.XLS

#	Name	Description	Input	Output	Type	Source	Author
1	-POL ROM	Section Header	none	Shows "Σak*x^k"	MCODE	This project	Ángel Martin
2	"COHN"	Cohn's Irreducibility Criterion			FOCAL	JMB_Matrix ROM	JM Baillard
3	"EPOL"	Edit Polynomial Coeffs.	bbb.eee in X	Edits coeffs.	FOCAL	This project	Ángel Martin
4	"PDIV"	Polynomial Euclidean Division	bbb.eee in X		FOCAL	JMB_Matrix ROM	JM Baillard
5	"FCTR"	Factorization over Z[X]			FOCAL	JMB_Matrix ROM	JM Baillard
6	"IPC"	Input Pol Coefficients	(N,00R#) in X	ak/an in RG#	FOCAL	This project	Ángel Martin
7	"IPC/"	IPC and Divide all by an (a^n=1)	(N,00R#) in X	ak in RG#	FOCAL	SandMath ROM	Ángel Martin
8	"IRR?"	A Better Irreducibility Criterion			FOCAL	JMB_Matrix ROM	JM Baillard
9	"P+P"	Sum of Polynomials	Prompts for coeffs		FOCAL	This project	Ángel Martin
10	"P-P"	Subtraction of Polynomials	Prompts for coeffs		FOCAL	This project	Ángel Martin
11	"P*P"	Product of Polynomials	Prompts for coeffs		FOCAL	This project	Ángel Martin
12	"P/P"	Division of Polynomials	Prompts for coeffs		FOCAL	This project	Ángel Martin
13	"PCY"	Polynomial COPY			FOCAL	JMB_Matrix ROM	JM Baillard
14	"PSUM"	Polynomial Sum			FOCAL	hp41 pages	JM Baillard
15	"PDIV"	Polynomial Euclidean Division			FOCAL	JMB_Matrix ROM	JM Baillard
16	"PVAL"	Evaluation of a Polynomial P(x)			FOCAL	hp41 pages	JM Baillard
17	"PPRD"	Polynomial Product			FOCAL	JMB_Matrix ROM	JM Baillard
18	"PR?"	Primality Test (Non-negative integers)			FOCAL	JMB_Matrix ROM	JM Baillard
19	"VPOL"	View Polynomial Coeffs.	bbb.eee in X	shows coeffs.	FOCAL	This project	Ángel Martin
20	-POOLROOT	Section Header	none	Shows "Order=?"	MCODE	This project	Ángel Martin
21	"BRST"	Bairstow Method	control word in X		FOCAL	JMB_Math ROM	JM Baillard
22	"CUBIC"	Cubic Equation Driver	prompts for a,b,c,d	roots displayed	FOCAL	This project	Ángel Martin
23	CVIETA	Cubic Equation roots	prompts for coeffs	roots displayed	FOCAL	SandMath ROM	Ángel Martin
24	"P2"	Quadratic Equation	control word in X	control word in X	FOCAL	JMB_Matrix ROM	JM Baillard
25	"P3"	Cubic Equation roots	control word in X	control word in X	FOCAL	JMB_Matrix ROM	JM Baillard
26	"P4"	Quartic Equation roots	control word in X	control word in X	FOCAL	JMB_Matrix ROM	JM Baillard
27	POLZER	Poles to Zeroes	Poles, n<7	Coeffs and Roots	FOCAL	SandMath ROM	Ángel Martin
28	PROOT	Polynomial Roots (Nth. degree)	prompts for coeffs	roots displayed	FOCAL	SandMath ROM	Ángel Martin
29	QROOT	Quadratic Equation roots	a in Z, b in Y, c in X	roots in Y,X	MCODE	SandMath ROM	Ángel Martin
30	QROUT	Output Roots	roots in Y,X	displayed in Alpha	MCODE	SandMath ROM	Ángel Martin
31	QUAD	Quadratic Equation Driver	prompts for a,b,c	roots displayed	FOCAL	SandMath ROM	Ángel Martin
32	"QUART"	Quartic Equation Driver	prompts for a,b,c,d	roots displayed	FOCAL	This project	Ángel Martin
33	"RTSN"	Subroutine use POLYN	prgm control (SF 06)	roots displayed	FOCAL	SandMath ROM	Ángel Martin
34	STLINE	Straight Line from points	data in TZYX	equation displayed	MCODE	SandMath ROM	Ángel Martin
35	-AUX FNS	Section Header	none	Shows "Running..."	MCODE	This project	Ángel Martin
36	ABSP	Alpha Back Step	String in Alpha	deletes last char	MCODE	MCode for Beginners	Ken Emery
37	AINT	Alpha Integer	number in X	appends INT(x) to Alpha	MCODE	ML ROM	Frits Ferwerda
38	CBRT	Cubic Root	x in X	x^1/3 in X, x in LastX	MCODE	SandMath ROM	Ángel Martin
39	DECX	Decrement X	x in X	x-1 in X, x in LastX	MCODE	SandMath ROM	Ángel Martin
40	DECY	Decrement Y	y in Y	y-1 in Y, y in LastX	MCODE	SandMath ROM	Ángel Martin

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41	E3/	Divide by 1,000	x in X	x/1000 in X, x in LastX	MCODE	SandMath ROM	Ángel Martin
42	E3/E+	Divide by 1,000 plus 1	x in X	1,00x in X, x in LastX	MCODE	SandMath ROM	Ángel Martin
43	I<>J	Swap Int<>Frc	a,00b in x	b,00a in x	MCODE	SandMath ROM	Ángel Martin
44	INCX	Increment X	x in X	1+x in X, x in LastX	MCODE	SandMath ROM	Ángel Martin
45	INCY	Increment Y	y in Y	1+y in Y	MCODE	SandMath ROM	Ángel Martin
46	X^3	Cubic Power	x in X	x^3 in X, x in LastX	MCODE	SandMath ROM	Ángel Martin
47	X=1?	Comparison	x in X	True if x=1. Yes/No	MCODE	SandMath ROM	Ángel Martin
48	X>=0?	Comparison	x in X	True if x>=0. Yes/No	MCODE	SandMath ROM	Ángel Martin
49	X>=Y?	Comparison	y in Y, x in X	True if x>=y. Yes/No	MCODE	SandMath ROM	Ángel Martin
50	YX^	Power (0^0 =1)	y in Y, x in X	y^x in X, x in LastX	MCODE	JMB_Math ROM	JM Baillard
51	ZROUT	Output Complex Roots	roots in Y,X	displayed in Alpha	MCODE	This project	Ángel Martin
1	-OTRHOPOL	Section Header	n/a	n/a	MCODE	This project	Ángel Martin
2	"dPL"	Derivative of a Polynomial			FOCAL	This project	JM Baillard
3	"BELL"	Bell Polynomials			FOCAL	This project	JM Baillard
4	"FIB"	Fibonacci Polynomials			FOCAL	This project	JM Baillard
5	"BSSL"	Bessel Polynomials			FOCAL	Bessel ROM	JM Baillard
6	"LEG"	Legendre Polynomials			FOCAL	JMB_Math ROM	JM Baillard
7	"HMT"	Hermite Polynomials			FOCAL	JMB_Math ROM	JM Baillard
8	"CHB"	Chebyshev Polynomials 1st. Kind			FOCAL	JMB_Math ROM	JM Baillard
9	"CHB2"	Chebyshev Polynomials 2nd. Kind			FOCAL	JMB_Math ROM	JM Baillard
10	"LANX"	Generalized Laguerre Polynomials			FOCAL	JMB_Math ROM	JM Baillard
11	"PMN"	Associated Legendre Functions 1st kind			FOCAL	JMB_Math ROM	JM Baillard
12	"PABNX"	Jacobi Polynomials			FOCAL	JMB_Math ROM	JM Baillard
13	"USP"	Ultra Spherical Polynomials			FOCAL	JMB_Math ROM	JM Baillard
14	-XTRA POL	Section Header	n/a	n/a	MCODE	This project	Ángel Martin
15	^LIST	Input to LIST	Input LIST values	LIST in Alpha	MCODE	This project	Ángel Martin
16	AITKEN	Polynomial Interpolation	Altken Method		FOCAL	SandMath ROM	Ulrich Deiters
17	ANUMDL	Alpha NUM w/ Deletion	String in Alpha	Numeric value in X	MCODE	HPIL-DEV ROM	HP Co.
18	DEGP	Degree of Polynomial	bbb.eee in X	N in X, R# in L	MCODE	hp41 pages	JM Baillard
19	LSTCPY	List Copy (CX-only!)	bbb.eee in Y, BBB lin X		MCODE	hp41 pages	JM Baillard
20	"MSR"	Multiple to Single Zeroes			FOCAL	hp41 pages	JM Baillard
21	"POLES"	Coefficientes from Poles	Poles, n<155	Coeffs	FOCAL	This project	JM Baillard
22	POLFIT	Polinomial Fit	Requires Advantage Pac		FOCAL	SandMath ROM	Valentín Albillo
23	QPOL	Quick Pol Entry	Inputs coeffs in LIST		MCODE	This project	Ángel Martin
24	"SYMP"	Symmetrical Polynomials			FOCAL	hp41 pages	JM Baillard
25	"THIELE"	Polynomial Interpolation	Thiele Method		FOCAL	hp41 pages	JM Baillard
26	-CPLX POL	Section Header	n/a	n/a	MCODE	This project	Ángel Martin
27	"dPLZ"	Derivative of a Complex Polynomial			FOCAL	hp41 pages	JM Baillard
28	"d2PLZ"	Second Derivative of a Cplx. Polynomial			FOCAL	hp41 pages	JM Baillard
29	"CUBIZ"	Driver for P3Z			FOCAL	This project	Ángel Martin
30	"LAGZ"	Roots of Complex Polynomial	Laguerre Method	Single roots only?	FOCAL	hp41 pages	JM Baillard

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31	"P2Z"	Complex Quadratic Eq. roots			FOCAL	hp41 pages	JM Baillard
32	"P3Z"	Complex Cubic Eq. roots			FOCAL	hp41 pages	JM Baillard
33	"P4Z"	Complex Quartic Eq. roots			FOCAL	hp41 pages	JM Baillard
34	"PDIVZ"	Complex Euclidean Division			FOCAL	hp41 pages	JM Baillard
35	PROOTZ	Complex Polynomial roots (Nth. degree)	under prgm control		FOCAL	41Z Module	Valentín Albillo
36	"PVALZ"	Complex Polynomial Evaluation			FOCAL	hp41 pages	JM Baillard
37	"QUADZ"	Driver for P2Z			FOCAL	This project	Ángel Martin
38	"QUARZ"	Driver for P4Z			FOCAL	This project	Ángel Martin
39	"ZPOL"	Enter Complex Pol Coeffs.	bbb.eee in X	control word in X	FOCAL	This project	Ángel Martin
40	-Z CALC-	Section Header	n/a	n/a	MCODE	This project	Ángel Martin
41	"ASHZ"	Complex inverse Hyperbolic Sine	z in Y,X	ash(z) in Y,X	FOCAL	hp41 pages	JM Baillard
42	E^Z	Complex Exponential	z in Y,X	e^z in Y,X	MCODE	41Z Module	Ángel Martin
43	LNZ	Complex Logarithm	z in Y,X	Ln(z) in Y,X	MCODE	41Z Module	Ángel Martin
44	"SHZ"	Complex Hyperbolic Sine	z in Y,X	sh(z) in Y,X	FOCAL	hp41 pages	JM Baillard
45	"SQRTZ"	Complex Square root	z in Y,X	sqrt(z) in Y,X	FOCAL	hp41 pages	JM Baillard
46	Z-Z	Complex subtraction	z1 in T,Z, z2 in Y,X	z1-z2 in Y,X	MCODE	41Z Module	Ángel Martin
47	Z+Z	Complex addition	z1 in T,Z, z2 in Y,X	z1+z2 in Y,X	MCODE	41Z Module	Ángel Martin
48	Z*Z	Complex product	z1 in T,Z, z2 in Y,X	z1*z2 in Y,X	MCODE	41Z Module	Ángel Martin
49	Z/Z	Complex Division	z1 in T,Z, z2 in Y,X	z1/z2 in Y,X	MCODE	hp41 pages	JM Baillard
50	Z^2	Complex Square	z in Y,X	z^2 in Y,X	MCODE	hp41 pages	JM Baillard
51	Z^X	Complex hybrid power	z in T,Y, x in X	z^x in Y,X	MCODE	41Z Module	Ángel Martin
52	ZOUT	Displays Complex Number in Alpha	z in Y,X	displayed in Alpha	MCODE	This project	Ángel Martin