#	Function	Description	Input	Output	Remarks	Type	Author
1	-INTEGRATOR	*Section Header - Shows "Running..." msg*	*none*			MCODE	*Ángel Martin*
2	***FILON***	Filon Integration	a,b,n,x in Stack; FNAME in Alpha	integral in X	n, ENTER^, x, R/S -> new result	FOCAL	*JM Baillard*
3	***GCHB1***	Gauss-Chebyshev Integrals 1st kind	a,b,n in Stack; FNAME in Alpha	integral in X	n, R/S -> new result	FOCAL	*JM Baillard*
4	***GCHB2***	Gauss-Chebyshev Integrals 2nd kind	a,b,n in Stack; FNAME in Alpha	integral in X	n, R/S -> new result	FOCAL	*JM Baillard*
5	***GH20***	Gauss-Hermite 20-point formula	FNAME in Alpha	integral in X	Loads data Constants	FOCAL	*JM Baillard*
6	***GH20D***	Gauss-Hermite 20-point formula - Double Integrals	FNAME in Alpha	integral in X	Loads data Constants	FOCAL	*JM Baillard*
7	***GH20T***	Gauss-Hermite 20-point formula - Triple Integrals	FNAME in Alpha	integral in X	Loads data Constants	FOCAL	*JM Baillard*
8	***GH30***	Gauss-Hermite 30-point formula	FNAME in Alpha	integral in X	Loads data Constants	FOCAL	*JM Baillard*
9	***GH30D***	Gauss-Hermite 30-point formula - Double Integrals	FNAME in Alpha	integral in X	Loads data Constants	FOCAL	*JM Baillard*
10	***GH30T***	Gauss-Hermite 30-point formula - Triple Integrals	FNAME in Alpha	integral in X	Loads data Constants	FOCAL	*JM Baillard*
11	***GK7***	Gauss-Kronrod 7-point (& 15-point) formulae	a,b,n in Stack; FNAME in Alpha	integral in X	n, R/S -> new result	FOCAL	*JM Baillard*
12	***GL3***	Gauss-Legendre 3-point formula	a,b,n in Stack; FNAME in Alpha	integral in X	n, R/S -> new result	FOCAL	*JM Baillard*
13	***GL3D***	Gauss-Legendre 3-point formula - Double Integrals	a,b,n in Stack; FNAME in Alpha	integral in X	n, R/S -> new result	FOCAL	*JM Baillard*
14	***GL3M***	Gauss-Legendre 3-point formula - Multiple Integrals	Prompts for Data	integral in X	R/S -> new n, result	FOCAL	*JM Baillard*
15	***GL3T***	Gauss-Legendre 3-point formula - Triple Integrals	a,b,n in Stack; FNAME in Alpha	integral in X	n, R/S -> new result	FOCAL	*JM Baillard*
16	***GL10***	Gauss-Legendre 10-point formula	a,b,n in Stack; FNAME in Alpha	integral in X	n, R/S -> new result	FOCAL	*JM Baillard*
17	***GL10D***	Gauss-Legendre 10-point formula - Double Integrals	a,b,n in Stack; FNAME in Alpha	integral in X	n, R/S -> new result	FOCAL	*JM Baillard*
18	***GL10T***	Gauss-Legendre 10-point formula - Triple Integrals	a,b,n in Stack; FNAME in Alpha	integral in X	n, R/S -> new result	FOCAL	*JM Baillard*
19	***GLA10***	Gauss-Laguerre 10-point formula	FNAME in Alpha	integral in X	Loads data Constants	FOCAL	*JM Baillard*
20	***GLA10D***	Gauss-Laguerre 10-point formula - Double Integrals	FNAME in Alpha	integral in X	Loads data Constants	FOCAL	*JM Baillard*
21	***GLA10T***	Gauss-Laguerre 10-point formula - Triple Integrals	FNAME in Alpha	integral in X	Loads data Constants	FOCAL	*JM Baillard*
22	***GLA15***	Gauss-Laguerre 15-point formula	FNAME in Alpha	integral in X	Loads data Constants	FOCAL	*JM Baillard*
23	***GLA15D***	Gauss-Laguerre 15-point formula - Double Integrals	FNAME in Alpha	integral in X	Loads data Constants	FOCAL	*JM Baillard*
24	***GLA15T***	Gauss-Laguerre 15-point formula - Triple Integrals	FNAME in Alpha	integral in X	Loads data Constants	FOCAL	*JM Baillard*
25	GW	Weights for Gauss-Legendre 10-point formula	n in X, 0 < n<= 5	value in X	doesn't lift stack	MCODE	*JM Baillard*
26	GX	Abscissas for Gauss-Legendre 10-point formula	n in X, 0 < n<= 6	value in X	doesn't lift stack	MCODE	*JM Baillard*
27	-DISCRETE	*Section Header - Loads Data Constants*	*uses Flags 1-5*	*Constants loaded*		MCODE	*Ángel Martin*
28	***3DLS***	Tridiagonal Linear Systems	bbb.eee in X	bbb.eee in X	*subroutine for NCSI*	FOCAL	*JM Baillard*
29	***DIGD***	Double Integrals (equally-spaced arguments)	m,n in Y,X; # in R00; Data in Regs		use RGDATA for input	FOCAL	*JM Baillard*
30	***DIGT***	Triple Integrals (equally-spaced arguments)	p,m,n in stack; # in R00; Data in Regs		use RGDATA for input	FOCAL	*JM Baillard*
31	***ITGCUB***	Integrals (connecting cubic segments)	# in R00; Data in Regs		use RGDATA for input	FOCAL	*JM Baillard*
32	***LAGR***	Lagrange Interpolation Formula	bbb.eee in Y; x in X	L(x) in X; bbb.eee in Y	*subroutine for LAGRI*	FOCAL	*JM Baillard*
33	***LAGRI***	Integral of the Lagrange Polynomial	# in R00; Data in Regs		use RGDATA for input	FOCAL	*JM Baillard*
34	***NCSI***	Natural Cubic Spline Integration	# in R00; Data in Regs		use RGDATA for input	FOCAL	*JM Baillard*
35	***SIMP***	Simpson rule (unequally-spaced arguments too)	# in R00; Data in Regs		use RGDATA for input	FOCAL	*JM Baillard*
36	***TRAP***	Trapezoidal rule (unequally-spaced arguments too)	# in R00; Data in Regs		use RGDATA for input	FOCAL	*JM Baillard*
37	-ELLIPTIC	***Section Header - Function Launcher***	***Prompts for FNC***	***Launches Function***	*RF, RG, RJ, RFZ, RJZ, ELIPF*	MCODE	*Ángel Martin*
38	***CEI***	Complete Elliptic Integrals (1st & 2nd kinds)	m in X	E(m) in x; K(m) in Y	0 < = m < 1	FOCAL	*JM Baillard*
39	***ELI***	Incomplete Elliptic Integrals (1st & 2nd kinds)	m in Y, v in X	F(v|m) in X; E(v|m) in Y		FOCAL	*JM Baillard*
40	ELIPF	Elliptic Integral of the 1st kind	m in Y, x in X	F(x|m) in X		MCODE	*Ángel Martin*
41	***LEI1***	Legendre Elliptic Integral of the 1st kind	m in Y, x in X	F(x|m) in X		FOCAL	*JM Baillard*
42	***LEI2***	Legendre Elliptic Integral of the 2nd kind	m in Y, x in X	E(x|m) in X		FOCAL	*JM Baillard*

#	Function	Description	Input	Output	Remarks	Type	Author
43	***LEI3***	Legendre Elliptic Integral of the 3rd kind	n,m,x in Y,Y,X	P(x|m|n) in X		FOCAL	*JM Baillard*
44	**RF**	Carlson Elliptic Integral (1st kind)	arguments in X,Y,Z	RF(x,y,z)		MCODE	*JM Baillard*
45	**RFZ**	Carlson Elliptic Integral (1st kind) - complex arg	X,re(Y) in Y, im(Y) in Z	RF(x,y+i.z,y-i.z)		MCODE	*JM Baillard*
46	***RG***	Symmetric Carlson Elliptic Integral of the 2nd kind	arguments in X,Y,Z	RG(x,y,z)		FOCAL	*JM Baillard*
47	**RJ**	Carlson Elliptic Integral (3rd kind)	arguments in X,Y,Z,p>0 in T	RJ(x,y,z,p)		MCODE	*JM Baillard*
48	**RJZ**	Carlson Elliptic Integral (3rd kind) - complex arg	X,re(Y) in Y, im(Y) in Z,p>0 in T	RJ(x,y+i.z,y-i.z,p)		MCODE	*JM Baillard*
49	**-ROMBERG**	*Section Header - Stores Z,Y,X in Regs R01-R03*	*Data in Stack*	*Data stored*		MCODE	*Ángel Martin*
50	***CURVE***	Arc length of a curve	a,b in Y,X; FNAME in Alpha	Arc length in X		FOCAL	*JM Baillard*
51	***IG***	Romberg Integration - midpoint formula	a,b in Y,X; FNAME in Alpha	integral in X		FOCAL	*JM Baillard*
52	***IG3***	Romberg Integration - midpoint formula - step tripl.	a,b in Y,X; FNAME in Alpha	integral in X		FOCAL	*JM Baillard*
53	***IGD***	Midpoint formula - Double Integrals	a,b in Y,X; FNAME in Alpha	integral in X		FOCAL	*JM Baillard*
54	***IGT***	Midpoint formula - Triple Integrals	a,b in Y,X; FNAME in Alpha	integral in X		FOCAL	*JM Baillard*
55	***ROM***	A subroutine called by many programs in this section	*subroutine use*	*subroutine use*		FOCAL	*JM Baillard*
56	***SREVL***	Area of a surface of revolution	a,b in Y,X; FNAME in Alpha	Surface area in X		FOCAL	*JM Baillard*
57	**-HP & PPC**	*Section Header - Prompts "|-NAME?"*	*Text in Alpha*	*Stops w/ Alpha ON*		MCODE	*Ángel Martin*
58	***DIFEQ***	Differential Equations	Prompts for Data	Solves for x	From Advantage Pac	FOCAL	*HP Co.*
59	***IGAB***	Integral from a to b	Prompts for Data	integral in X	Loads data Constants	FOCAL	*HP Co.*
60	***IGAI***	Integral from a to infinity	Prompts for Data	integral in X	Loads data Constants	FOCAL	*HP Co.*
61	***ITG***	Numeric Integration	a,b,n in Stack; FNAME in Alpha	integral in X		FOCAL	*??*
62	***PPCIG***	PPC ROM Integrator	a,b in Y,X; FNAME in Alpha	integral in X		FOCAL	*PPC Members*
63	***PPCSV***	PPC ROM Solver	a,b in Y,X; FNAME in Alpha	root in X		FOCAL	*PPC Members*
64	***RGDATA***	Data Entry for Discrete cases	Prompts for each data point	Data stored in Regs	*use to input data points*	FOCAL	*Angel Martin*