Appendix E: Tip List programs and functions

This appendix lists the functions and programs used in the tip list. The files in the *tlcode.zip* file have the same names as those shown, but the file type may be .89p, .9xp, .89f and so on, depending on the original calculator file type. For some programs there are specific versions for the TI-89 and the TI-92 Plus, and these can be identified by the file types .89* and .9x*. Unless otherwise stated in the tip description, the routines will run on either calculator.

Name	Description	Tip
adjoint()	Matrix adjoint	[3.13]
aitkend2()	Accelerate series convergence with Aitken's method	[6.59]
apps()	Application launcher (DAB)	[7.18]
asympexp()	Asymptotic expansion	[6.61]
atan2()	Arc-tangent, four-quadrant	[6.48]
autoexap()	Toggle Exact, Auto, Approx modes	[9.14]
bilinint()	Bilinear interpolation	[6.28]
bilinui()	Bilinear interpolation, user interface for bilinint()	[6.28]
bitclr()	Clear a bit in a word	[3.23]
bitnot()	Invert a bit in a word	[3.23]
bitset()	Set a bit in a word	[3.23]
bittst()	Test a bit in a word	[3.23]
bn()	Bernoulli number	[6.27]
bnpoly()	Bernoulli polynomial; table of polynomials	[6.27]
bnpolys()	Bernoulli polynomial of order n; single polynomial	[6.27]
bpo()	Bernoulli polynomial; recall polynomial, see bnpoly()	[6.27]
c2p()	Convert expression in rectangular coordinates to polar	[6.15]
casel()	Convert string to lower-case	[8.6]
caseu()	Convert string to upper-case	[8.6]
charcnt()	Count character occurrences in string	[8.4]
ci()	Cosine integral function	[6.33]
cnd()	Normal distribution, cumulative, with error function	[6.35]
cndi()	Normal distribution inverse, accurate version	[6.35]
cndif()	Normal distribtution inverse, fast version	[6.35]
cndint()	Normal distribution, cumulative, by integral definition	[6.35]
coef()	See cubic() and quartic()	[6.10]
copyto_h()	Copy expression to home screen (Samuel Stearley)	[7.8]
corrhk()	Correlation coefficient for regression through fixed point	[6.6]
cubic()	Exact solution to cubic polynomial	[6.10]
datalist()	Write values to data variables	[3.8]
datamat()	Convert data variable to matrix	[3.29]
dbdemo()	Dialog box (dynamic) demonstration	[9.7]
dbdrd()	Dialog box (dynamic), drop-down menu	[9.7]
dbend()	Dialog box (dynamic), end	[9.7]
dbreq()	Dialog box (dynamic), Request	[9.7]
dbttl()	Dialog box (dynamic), title	[9.7]
dbtxt()	Dialog box (dynamic), text	[9.7]
delay()	Delay expression evaluation with constraints	[2.18]
delegnv()	Delete variables in numeric solver equation	[6.54]
delvar1()	Delete locked, archived variables	[7.39]
det2a()	Fast symbolic matrix determinant	[3.27]
disprc()	Display text on program I/O screen	[9.4]
dms()	Convert angle in D.MS format to decimal degrees or radians	[6.17]
dmsi()	Convert angle in decimal degrees or radians to D.MS format	[6.17]

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