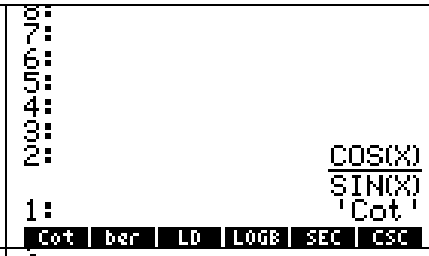
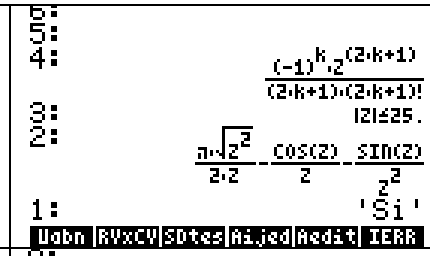
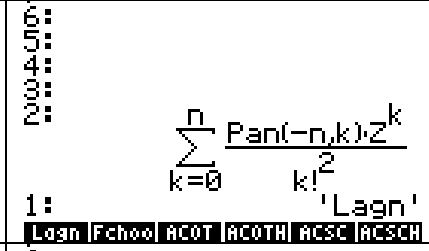
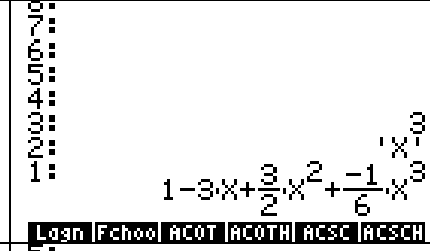
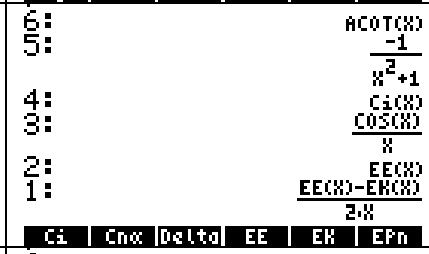
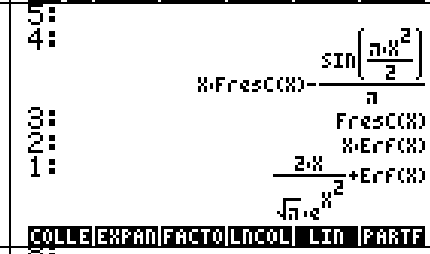
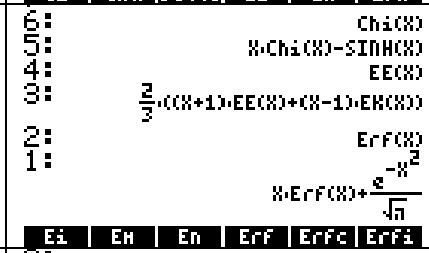
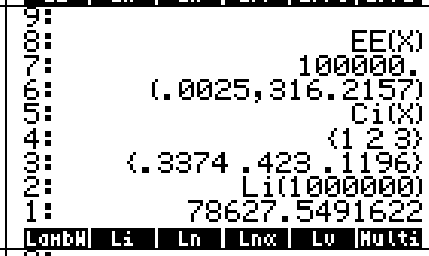
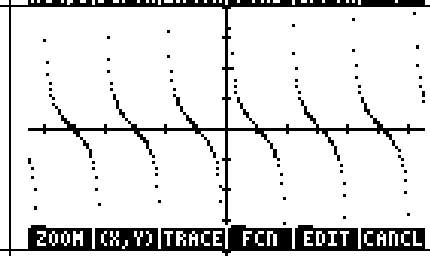
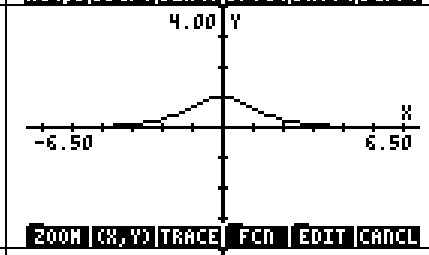
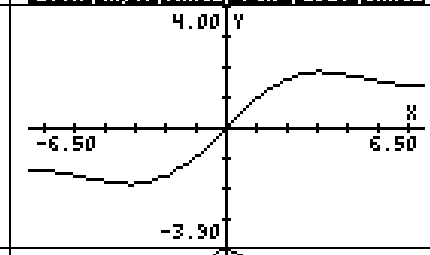
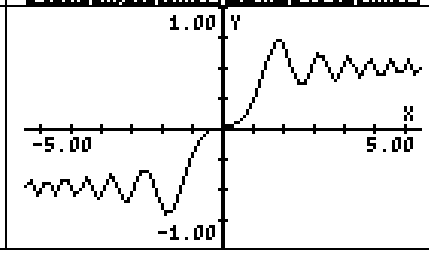
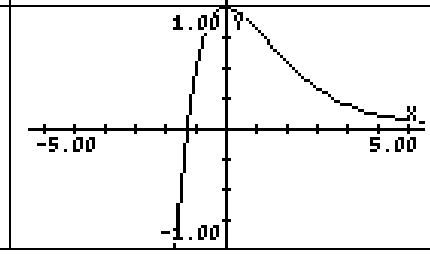
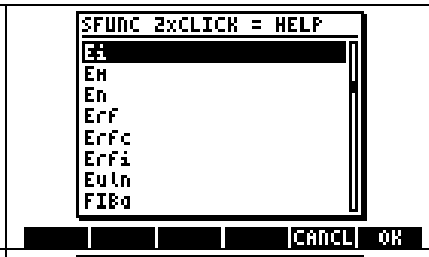
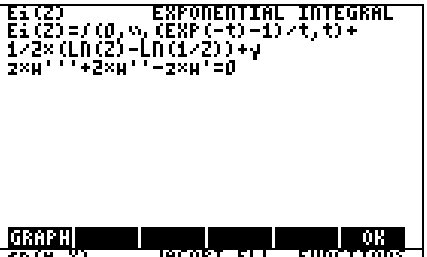
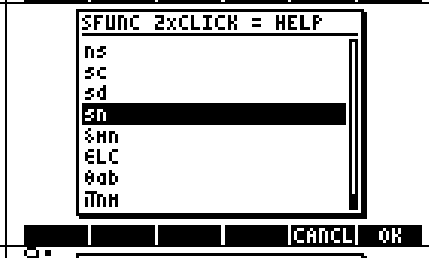
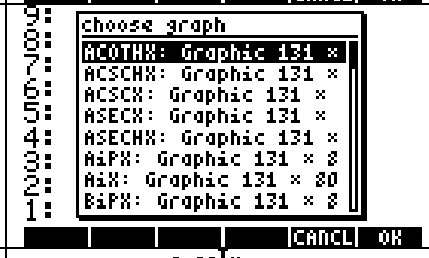
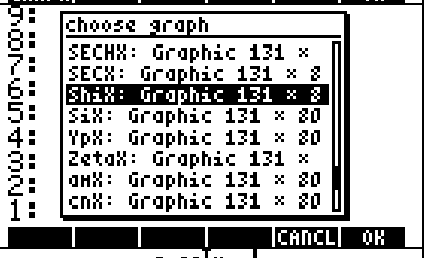
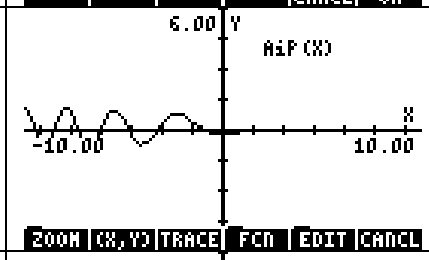
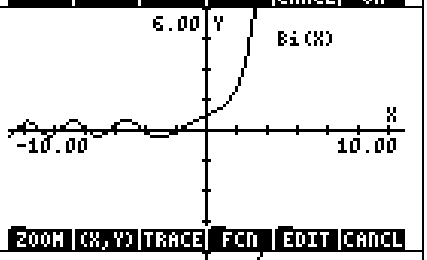
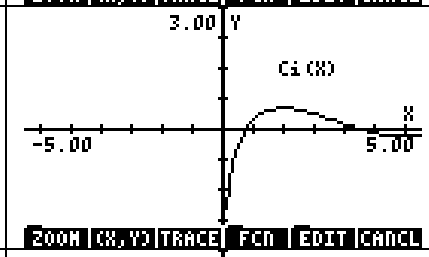
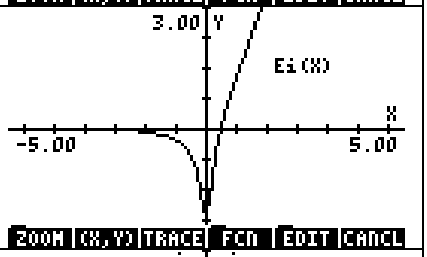
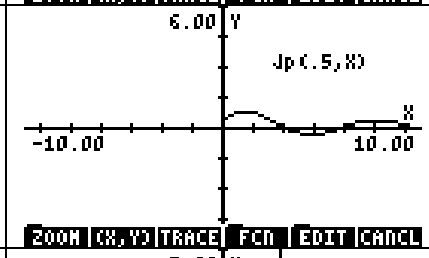
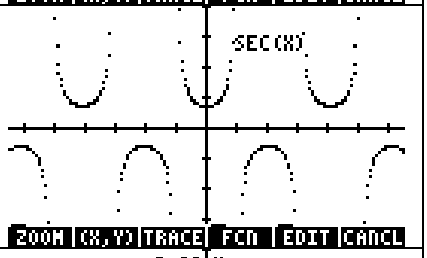
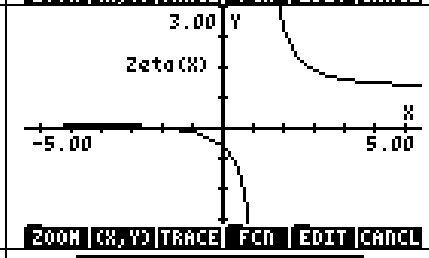
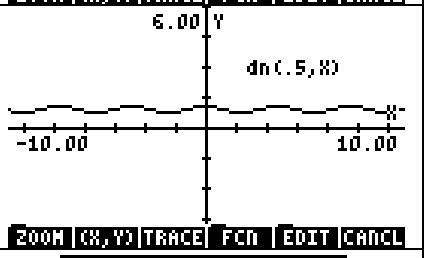
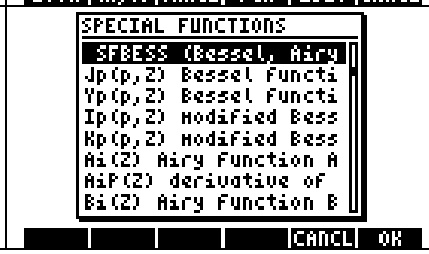
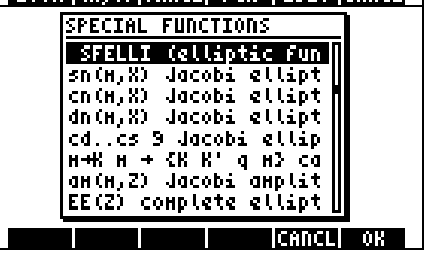
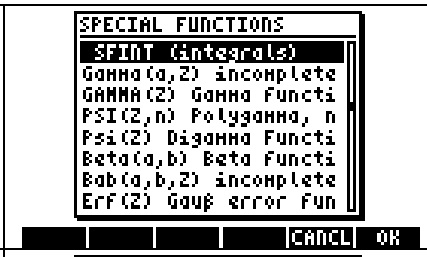
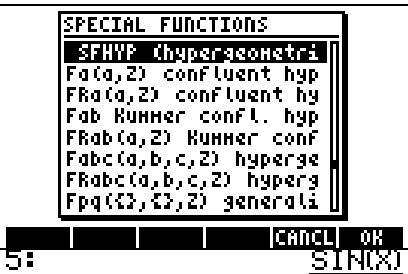
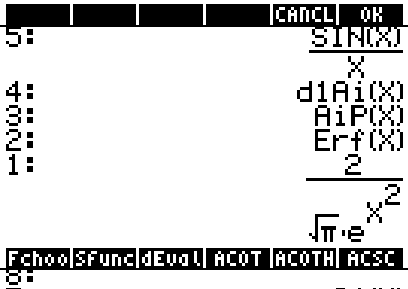
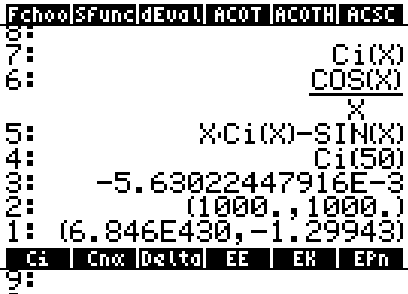
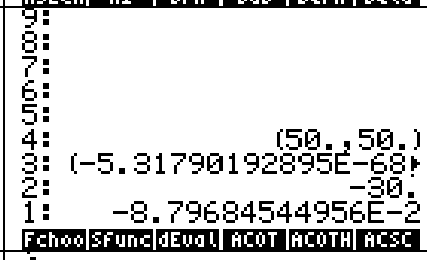
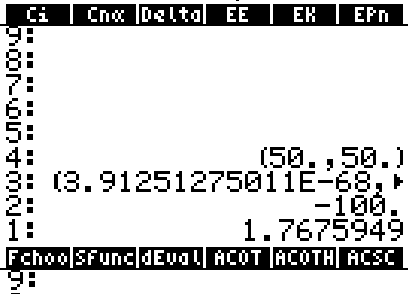
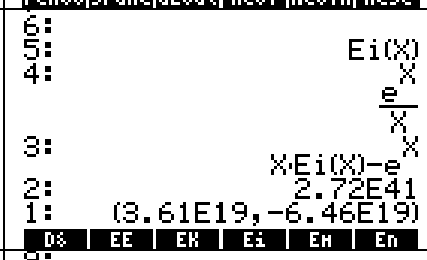
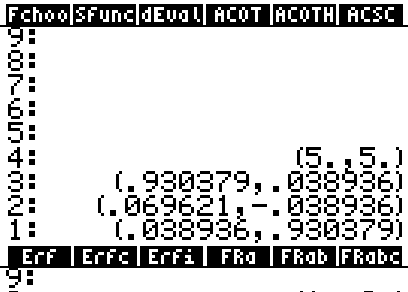
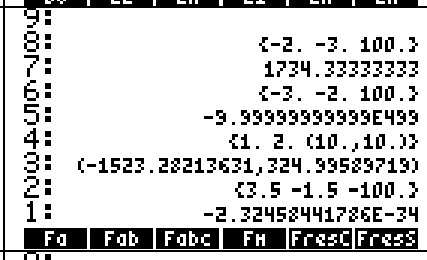
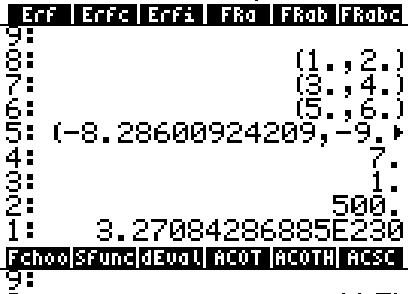
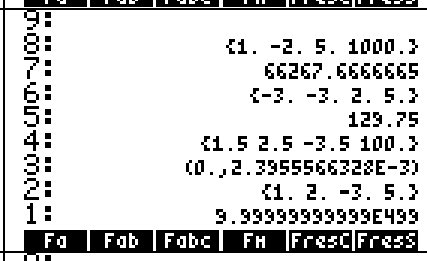
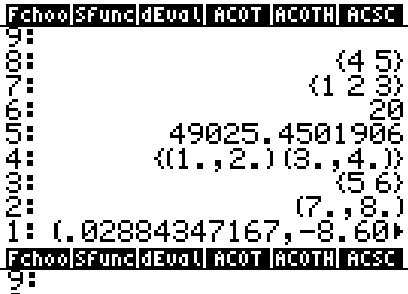
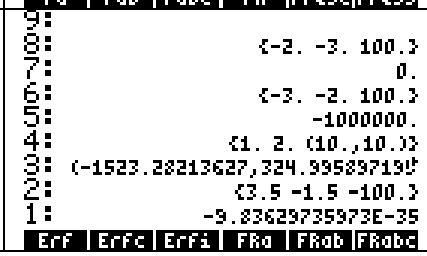
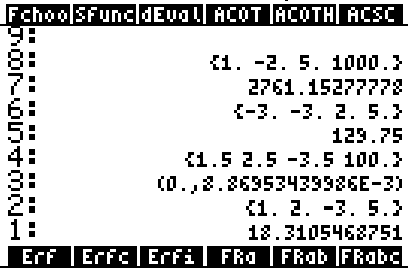
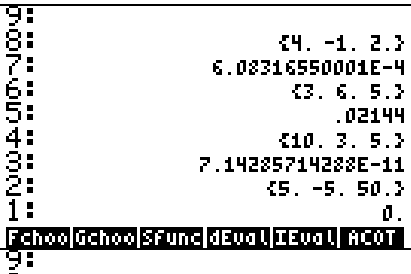
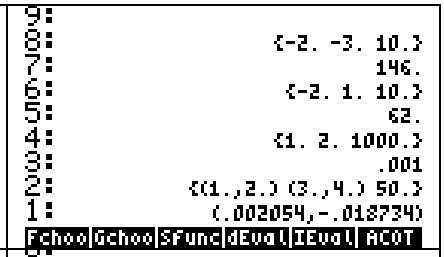
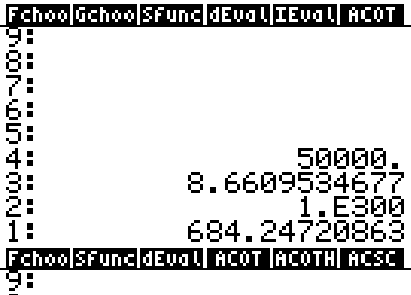
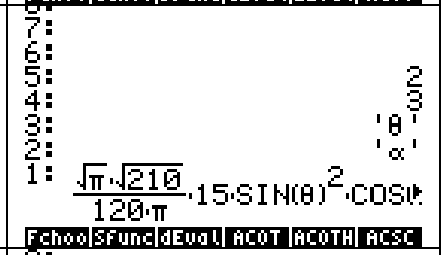
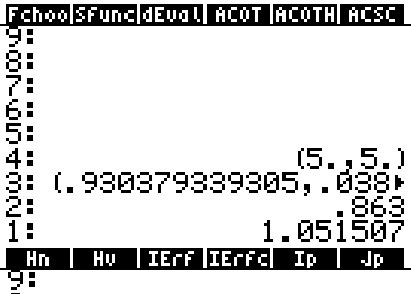
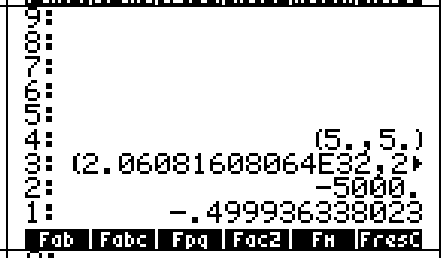
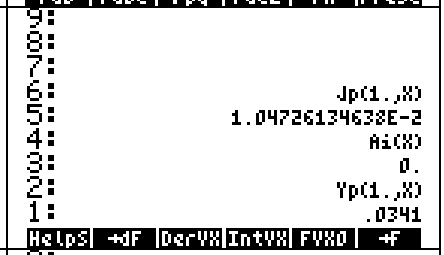
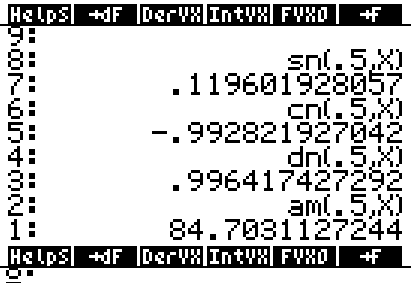
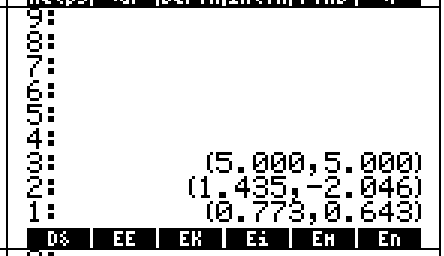
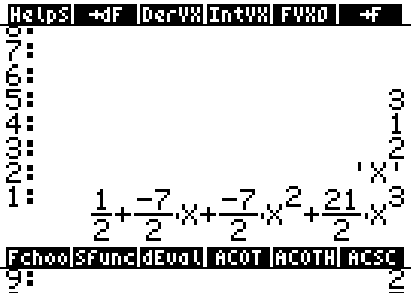
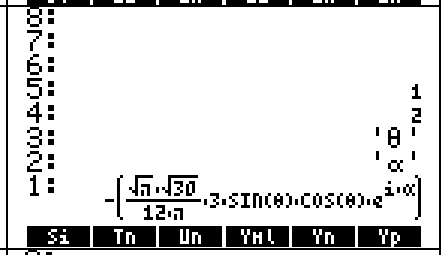
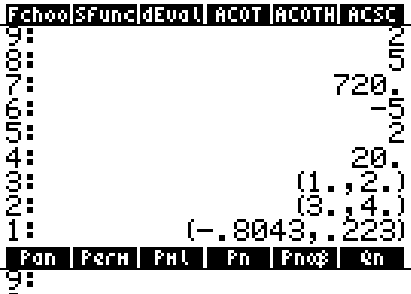
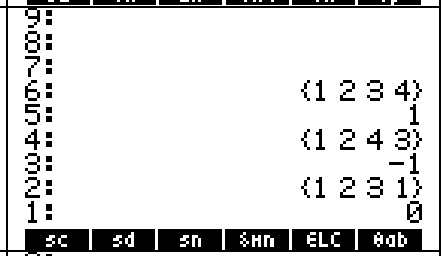
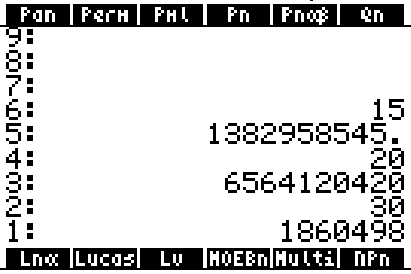
SFUNC

→F: generates function Cot cotangent (1s) →ΣF: generates function Si with asymptotic function		
→Pn: Laguerre polyn. (2s). Edit Lagn, insert XQ before PARTFRAC, because Pan always gives numeric results. Lagn: gives n. Laguerre polynomial		
SDerVX: derivative of special functions (2s)		
SIntVX: integral, only of function (3s)		
SFvalVX: function values (1s)		
SrootfVX: root of special function near a=2 (1s) SGrpfVX: plot with only points of COT(X) (5s)		
SGrfVX: plot of SECH(X) (6s) plot of Si(X)		
SGrfVX: plot of FresS(X) (30s) Plot of Gamma(2,X) (10s)		

Fchoose: choose special function 2x click gives help		
Fchoose: choose special function 2x click gives help		
Gchoose: graphs of many special functions on SD card in list SFgraph		
Gchoose: OK shows graph (0.1s)		
Gchoose: OK shows graph		
Gchoose: OK shows graph		
Gchoose: OK shows graph		
Sfuncts: special functions in categories		

Sfuncts: special functions in categories		
Sfuncts: special functions in categories dEval: evaluate derivatives		
ASECH(X): derivative and integral, value for X=100 , (50,50) Ci(X): derivative, integral values		
Ai(X)Values of Airy function (1, 0.2s) AiP, BiP: Airy Prime, derivatives of Ai, Bi (2s)		
Ei(X), derivative and integral, value for X=100 , (50,50) (1,2,0.2, 0.2s) Erf, Erfc, Erfi X=(5, 5) (0.6s)		
Fab: hypergeometric 1F1 values for {a b X}=.. (1s) Fab: hypergeometric 1F1 values for {a b c X}=..(2, 0.5s)		
Fabc: hypergeometric 2F1 values for {a b c X}=..(1s) Fpq: generalized hyp.geom. PFQ (4, 7s)		
FRab: hypg. regularized 1F1 values for {a b X}=.. (1s) FRabc: hypg. regularized 2F1 values for {a b c X}=..(1s)		

Uab: Tricomi confluent hypergeometric function, values for {a b X}=.. (1s)		
LambW: Lambert W (1-2s) Yml: spherical harmonics (5s)		
Erf, Ierf: Gauss error, inverse (1s) FresC,S: Fresnel Cosine, Sine (1s)		
Jp(1,X), Ai(X), Yp(1,X): values for X=5 (1s,2.5s,3s) values for X=500 (0.5,0.5,1 s)		
sn,cn,dn,am: Jacobi elliptic functions, amplitude, value for X=100 (3s) EE, EK complete elliptic integrals, X=(5, 5) (3s)		
Pnαß: Jacobi polynomial (5s) Yml: spherical harmonics (6s)		
Pan: Pochhammer symbol values (1s) εLC: Levi Civita symbol		
Bell: Bell number (1s) Catal: Catalan number (1s) Lucas: Lucas number (2s) S1mn, S2mn: 1., 2. Stirling numbers (2, 4s)		

Mathematical constants MOEBn: Moebius function Perm: permutation number (1, 1s)	A Glaisher constant 'A=EXP(1/12-d1zeta(-1))' 'A=1.28242712910O6' C Catalan constant 'C=Σ(k=0,∞,(-1)^k/(2×k+1)^2)' 'C=.915965594177' K Khinchin constant 'K=Π(k=1,∞,(1+1/(k×(k+2)))^(LN(k) 'K=2.685452001065' γ Euler Mascheroni constant 'γ=lim(Σ(k=1,n,1/k)-LN(n),n→∞)' 'γ=.577215664901S' GRAPH | | | | | OK	9: 8: 7: 6: 5: 4: 123 3: 1 2: (1 3 2 8 5 9 7) 1: 4 Fchoo SFunc dEval ACOT ACOTH ACSC
Zeta: Riemann Zeta function symbolic values (1s)	4: $-25: \frac{-657931}{12}$ 3: $-7: \frac{1}{240}$ 2: $-1: \frac{-1}{12}$ 1: $0: \frac{-1}{2}$ Zeta IntVX STONE prog2 MOEBn Borwe	4: 1.1(+∞) 3: 2 $2: \frac{\pi}{6}$ 2: $9: \frac{-1 \cdot PSI(1,8)}{40320}$ 1: $14: \frac{2 \cdot \pi^{14}}{18243225}$ OBJ→ →ARRY →LIST →STR →TAG →UNIT
Zeta: Riemann Zeta function numeric real values (0.5s)	9: 8: -251. 7: 1.1720962767E294 6: -25.7 5: -66996.4833311 4: -1. 3: -8.33333333333E-2 2: -.5 1: -.207886224978 Zeta IntVX STONE prog2 MOEBn Borwe	9: 8: .1 7: -.603037519855 6: .9 5: -9.4301140194 4: 1.0001 3: 10000.5772229 2: 25. 1: 1.00000000298 Zeta IntVX STONE prog2 MOEBn Borwe
Zeta: Riemann Zeta function complex numeric values (1-3s)	9: 8: (-40.,40.) 7: (-7.75763519098E34,▸ 6: (.5,10.) 5: (1.54489522029,-.11▸ 4: (2.,5.) 3: (.850962943626,.098▸ 2: (1.,3.) 1: (.628851733952,-.10▸ Zeta IntVX STONE prog2 MOEBn Borwe	limited precision 7: 6: (5.,5.) 5: (.973819242551,.011▸ 4: (100.,2.) 3: (1.,-7.75472153E-31) 2: (2.,14.) 1: (.689,.015) Zeta IntVX STONE prog2 MOEBn Borwe
Zeta: evaluate in algebraic expressions Zeta: 2xclick gives help	6: 5: 4: Zeta(4) 3: $\frac{\pi^4}{90}$ 2: $\frac{Zeta(5.)}{7}$ 1: .148132536449 Zeta ZetaM aH cd cn cs	Zeta(z) RIEMANN ZETA FCT Zeta(s)=Σ(k=1,∞,k^-s) RE(s)>1 =Π(p=2,∞,1/(1-p^-s)) EULER PROD =(1-2^(1-s))^-1× Σ(k=1,∞,(-1)^(k-1)/k^s) RE(s)>0 =1/(s-1)+γ+Σ(k=1,∞, (-1)^k×γk/k!×(s-1)^k) AT s=1 γk=STIELTJES CONST (SEE HELP) FUNCTIONAL EQN FOR COMPLEX s: Zeta(1-s)=2/(2×π)^s× GAMMA(s)×COS(π×s/2)×Zeta(s) GRAPH | | | | | OK