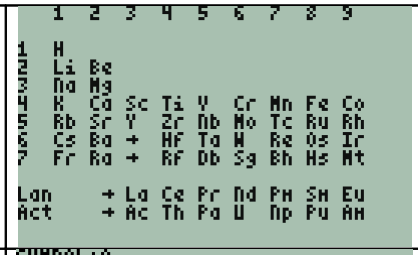
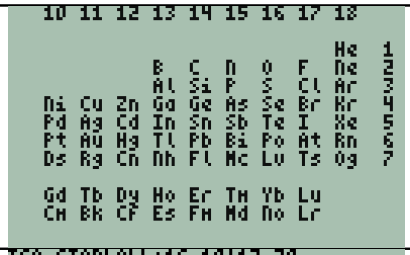
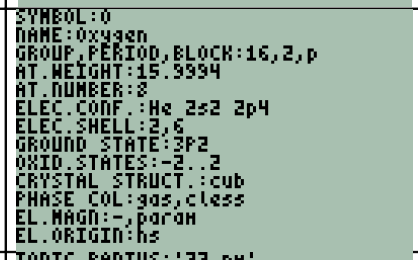
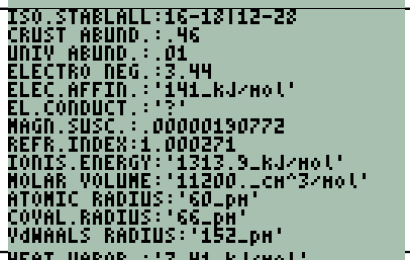
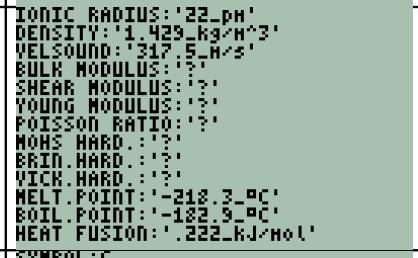
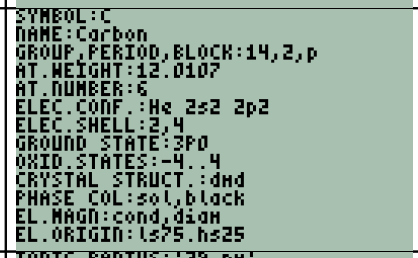
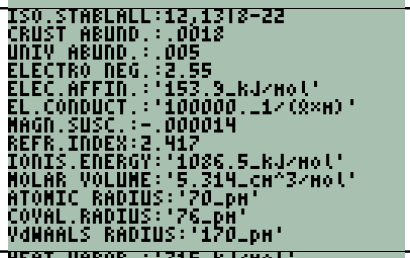
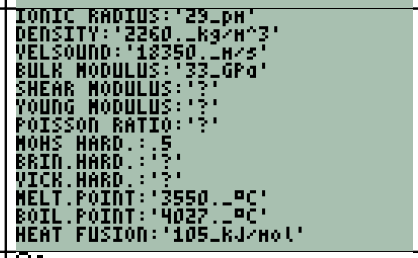
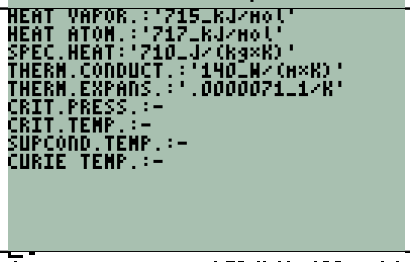
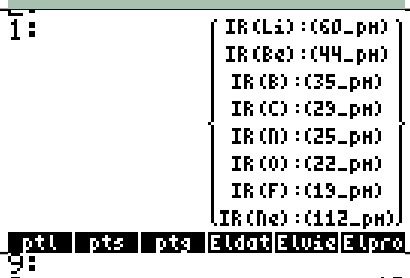
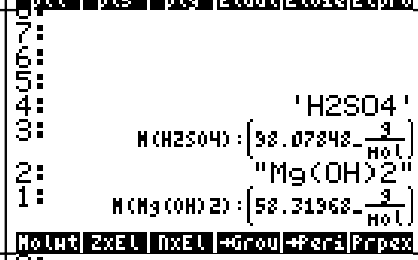
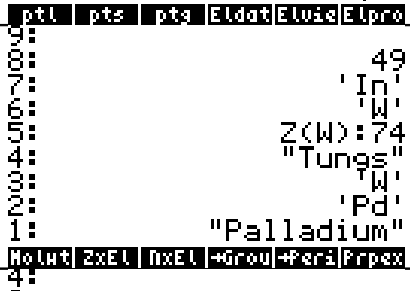
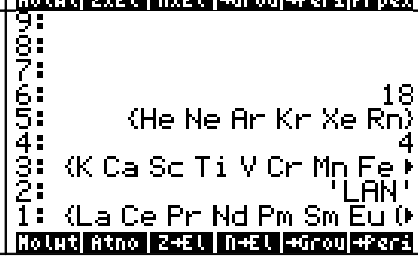
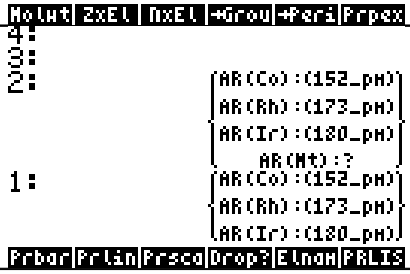
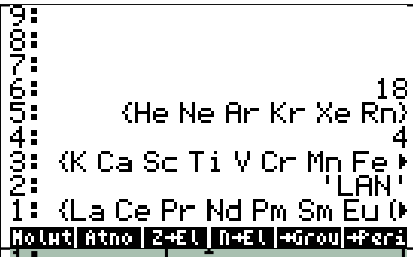
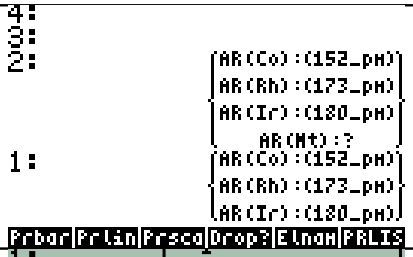
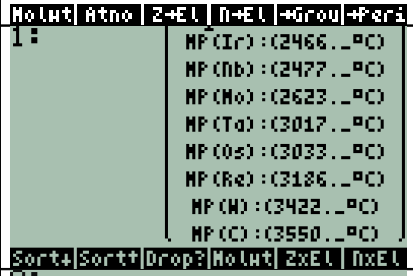
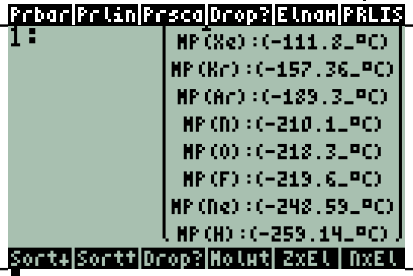
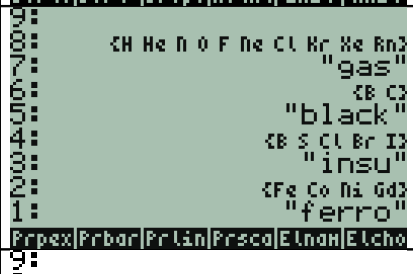
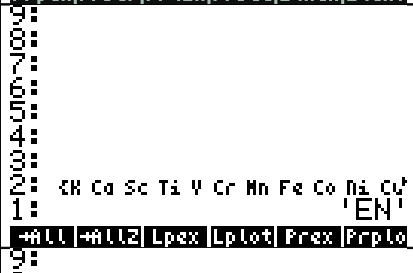
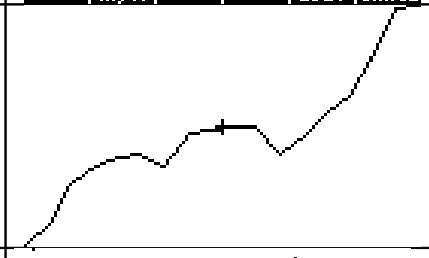
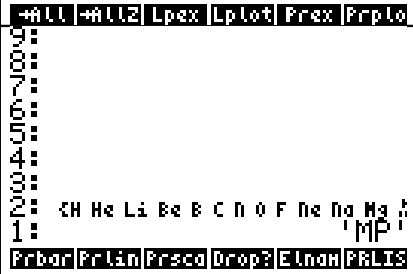
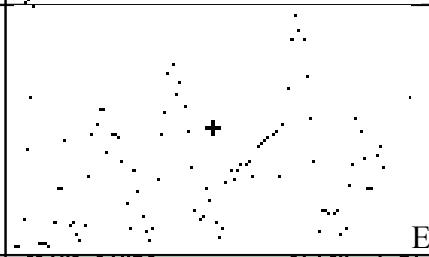
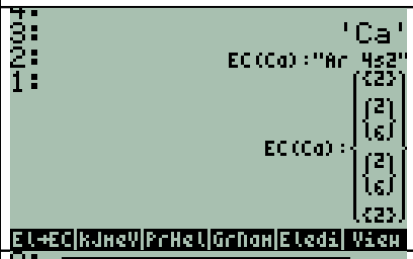
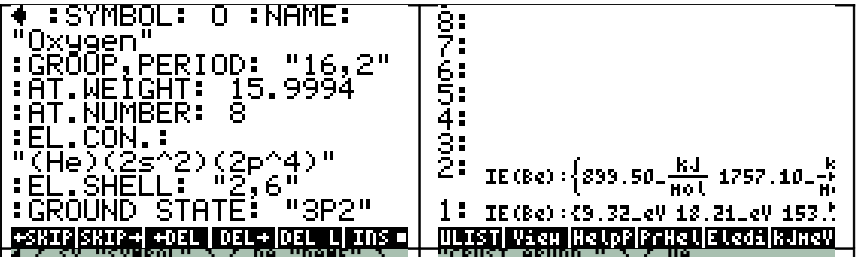
PTE

ptbl: periodic table of elements page1,2		
Elview: view element data		
view element data copy remains on stack, can be transferred to computer		
Elview: view element data page 1 page 2		
page 3 page 4		
Elprop: AR atomic radius of Li, melting-, boiling-point of Fe (1.5s) Elprop: IR ionic radii of second period		
Molwt: molweight ZxEl, NxEl: atomic number, string to symbol		
→Group, →Period: elements of 18 group, 4 period, Lanthanides Drop?: omit elements with unknown properties		

→Group, →Period: elements of 18 group, 4 period, Lanthanides Drop?: omit elements with unknown properties	 
Elnames MP Sort as(des)-cending, drop ?	 
Elchoose: choose elements with certain properties Prbarplot: barplot of atomic radii of 6. period	 
Prlineplot: lineplot of electro negativity of 4. period	 
Prscatplot: scatterplot of melting points of all elements	 
El→EC: electron configuration classic and with shells Group names	 
PrHelp: help to all properties OK shows info, copy to stack	 
PrHelp: help to all properties OK shows info, copy to stack	EO EL.ORIGIN element origin bb big bang ls loW mass stars hs high mass stars ns neutron stars (merging) ws white dwarf stars (supernovae) cr cosmic ray (collisions) hm human made Example: Li 'ls64.bb23.cr13' ls 64% bb 23% cr 13% WIKIPEDIA NUCLEOSYNTHESIS TABLE GRAPH OK	MP MELT.POINT i_°C melting point, temperature of change from solid to liquid phase GRAPH OK

Eledit: edit element data

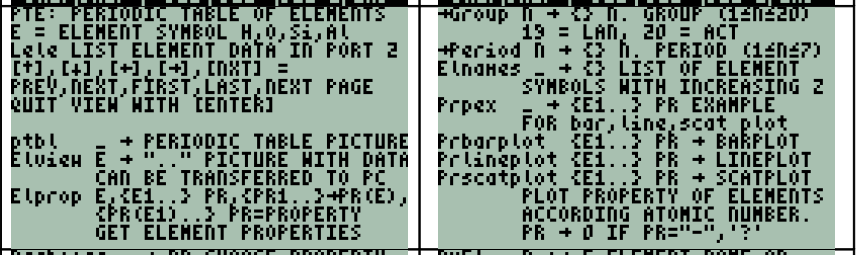
kJmeV: kJ/mol to eV



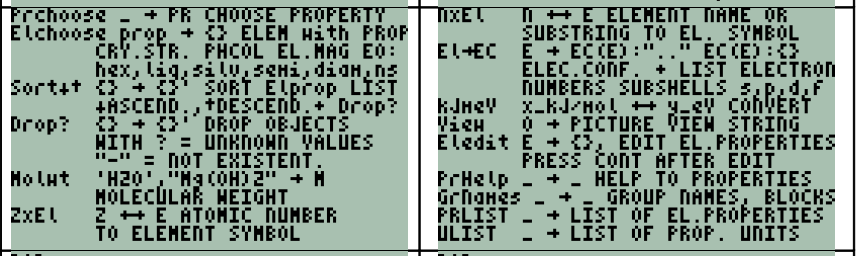
PRLIST: list with >50 element properties page 1

page 2

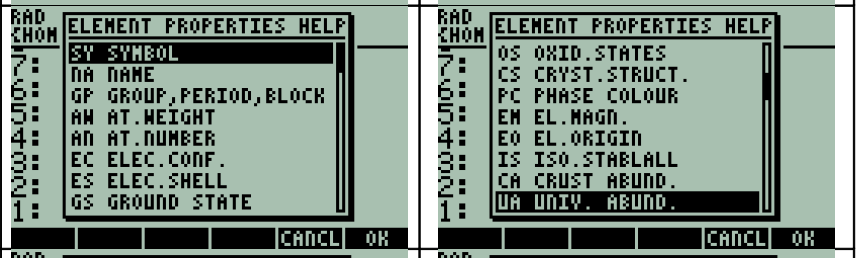
HelpPTE: help



HelpPTE: help



PrHelp: help to properties choose box



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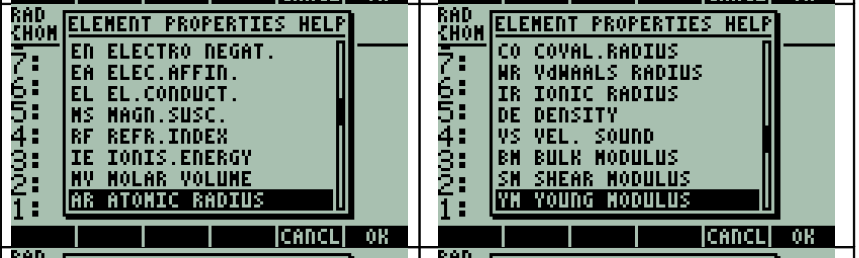
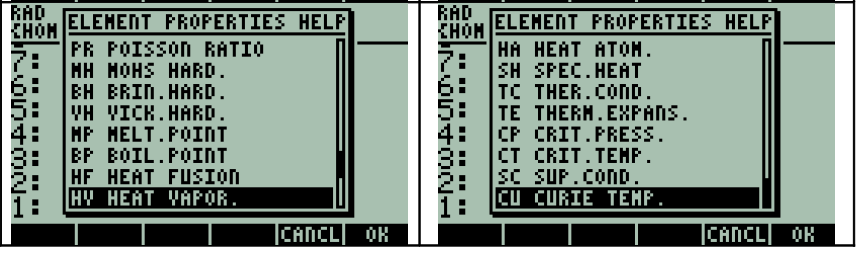


PrHelp: help to properties choose box



PrHelp: OK gives help	AW AT.WEIGHT atomic mass relative to mC12/12 GRAPH OK	ES EL.SHELL electron shellconf. electron-number in shell K,L.. GRAPH OK
PrHelp: OK gives help	GS GROUND STATE 2S+1 L J GRAPH OK	CS CRYST.STRUCT. crystal struct. cub cubic fcc face centered cubic bcc body centered cubic hex hexagonal tet tetragonal mcl monoclinic dia diamond orc orthorhombic rhl rhombohedral scb simple cubic GRAPH OK
PrHelp: OK gives help	MS MAGN.SUSC. volume magnetic susceptibility, degree of magnetisation in external field X B=μ×H, μ=μ0×(1+X) B=magnetic induction, H=magnetic field, Xmass=X/ρ mass susceptibility, Xmol=M×Xmass molar susceptiblity GRAPH OK	AR AT.RADIUS 1_pm atomic radius distance nucleus-outest electron GRAPH OK
PrHelp: OK gives help	SM SHEAR MOD. 1_GPa shear modulus, shear stress/strain G, G=(F/A)/(Δx/I), F=force,A=area, Δx=displacement,I=initial length GRAPH OK	VH VICK.HARD. 1_MPa Vickers hardness, indentation of pyramid HV=F/A~1.854×F/d^2, F=force, A=area, d=diameter pyramide GRAPH OK
PrHelp: OK gives help	SH SPEC.HEAT 1_J/(kg×K) specific heat capacity, energy to change temperature of 1kg by 1K, c=dQ/dT, cp,cV at constant pressure, volume GRAPH OK	TE THERM.EXP. 1_1/K thermal linear expansion α, α=(ΔL/L)/ΔT ΔL=LFinal-LInitial, L=LInitial, ΔT=temperature difference GRAPH OK