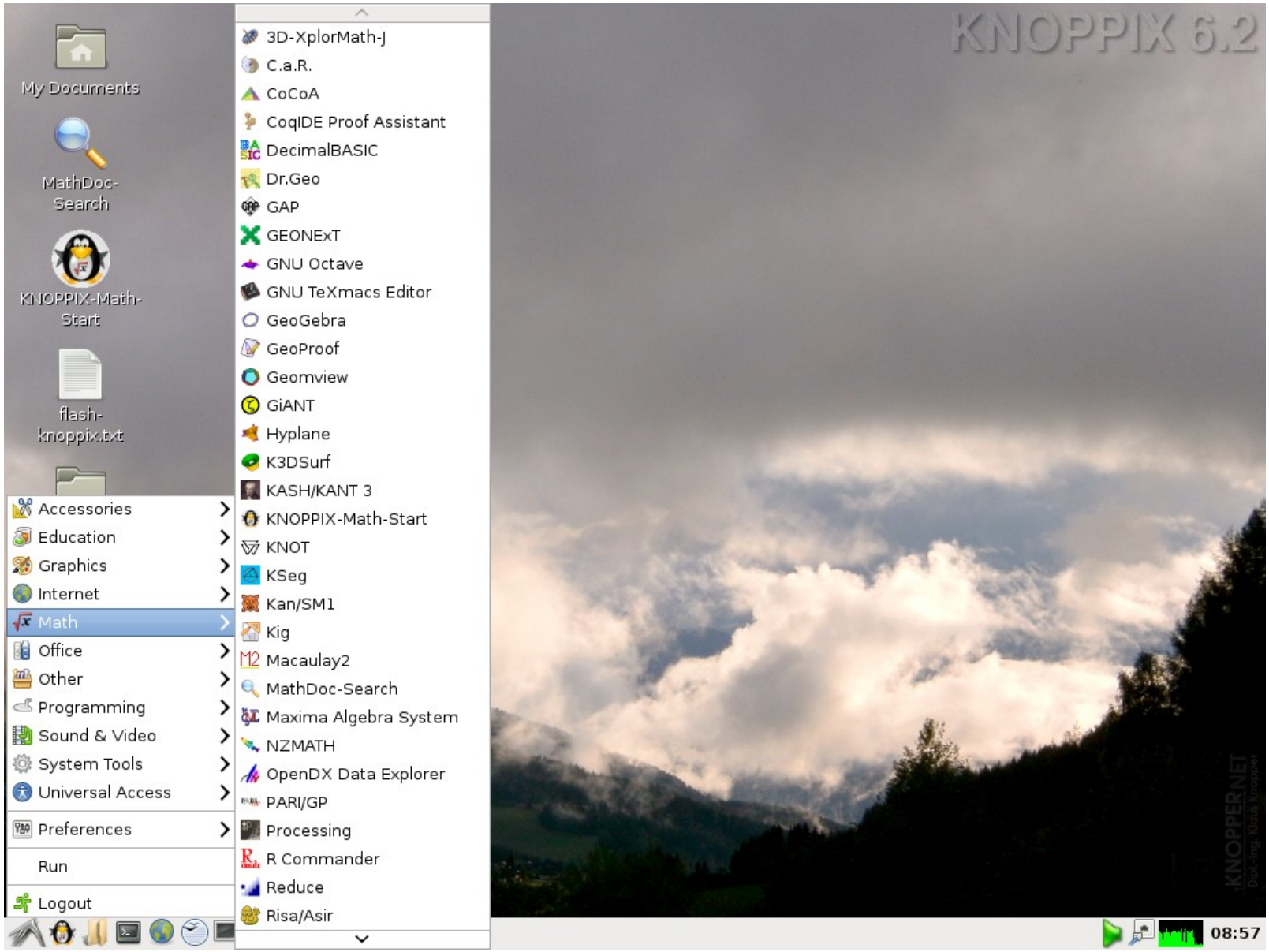
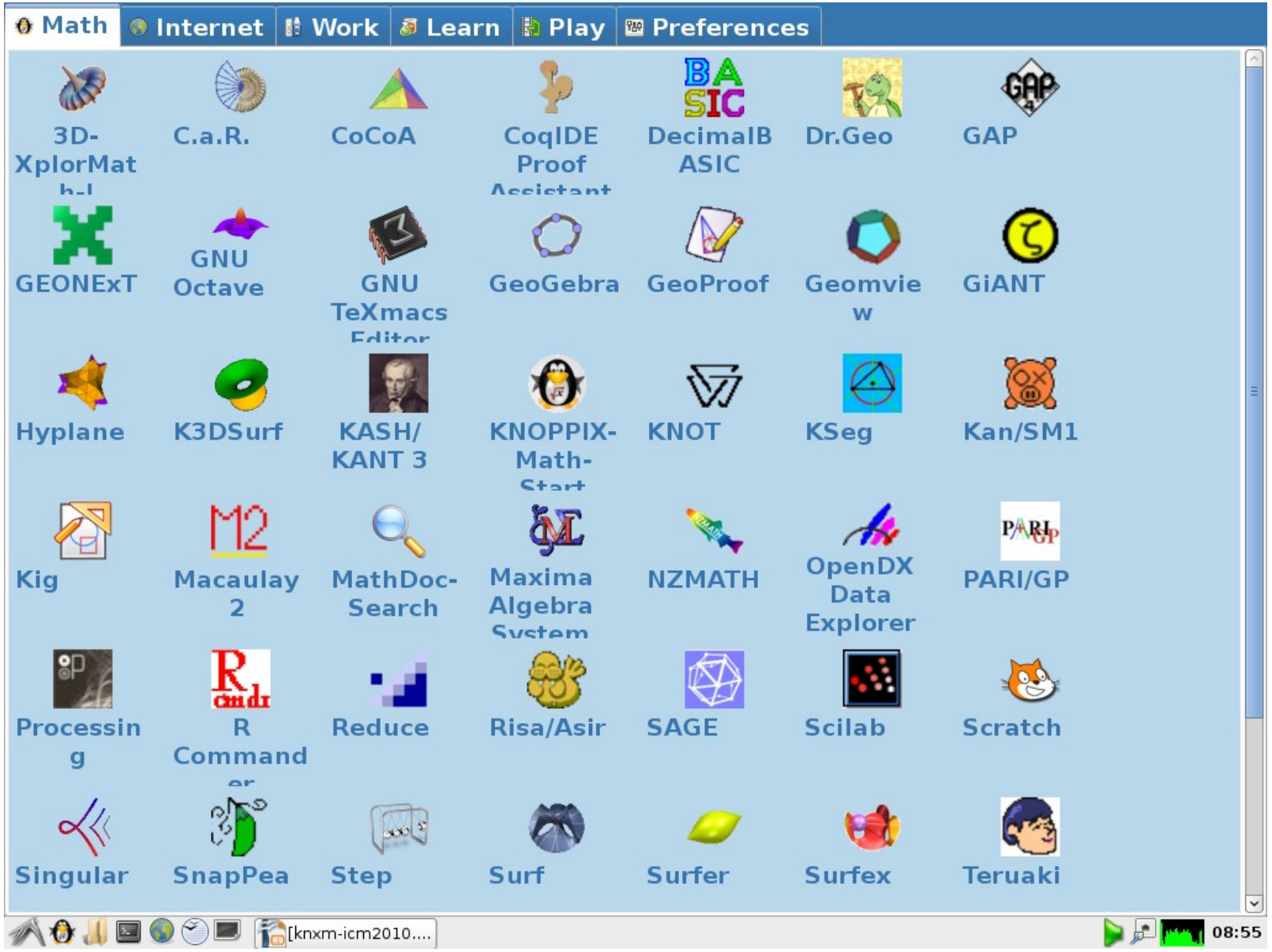
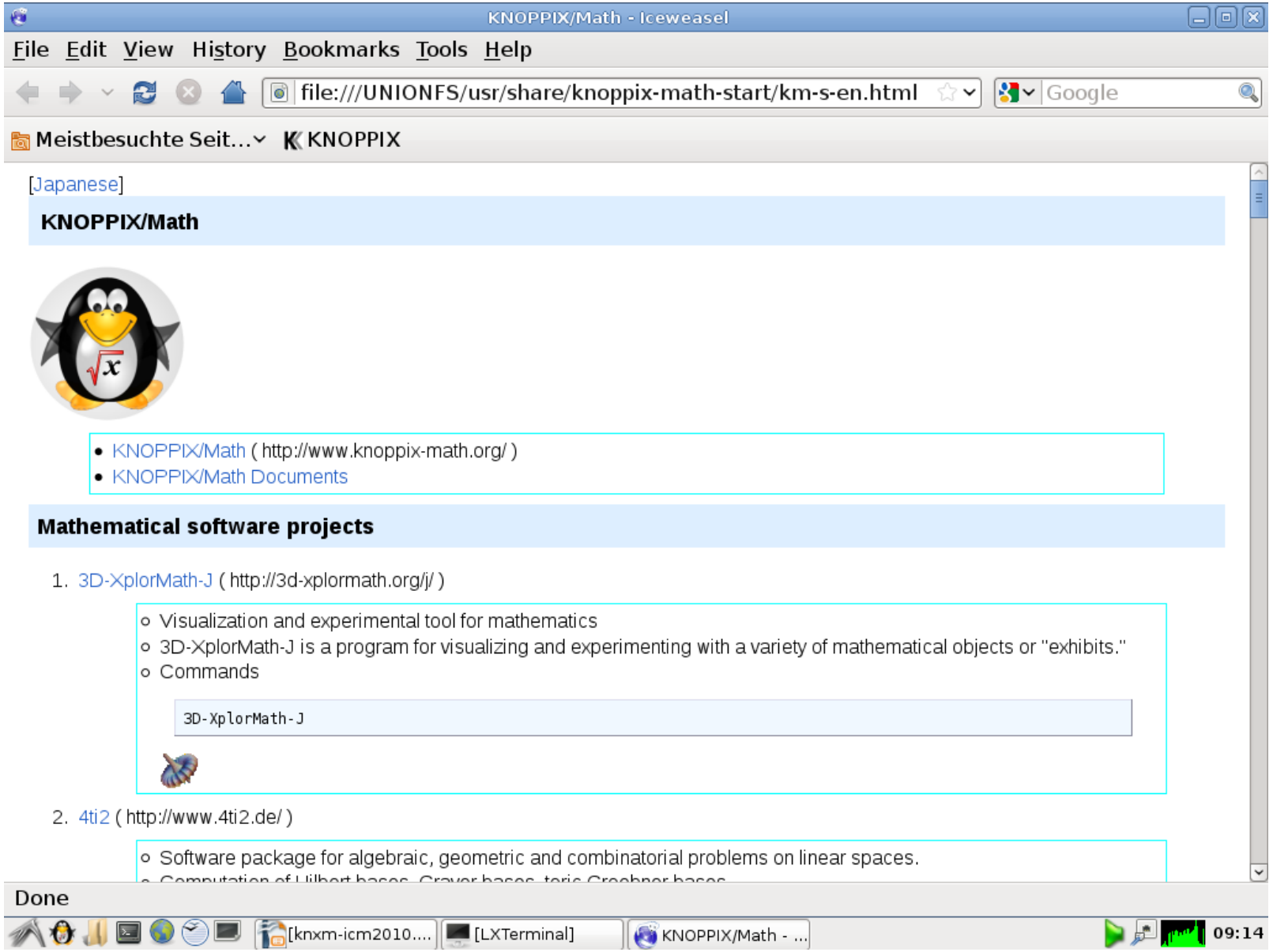
KNOPPIX/Math



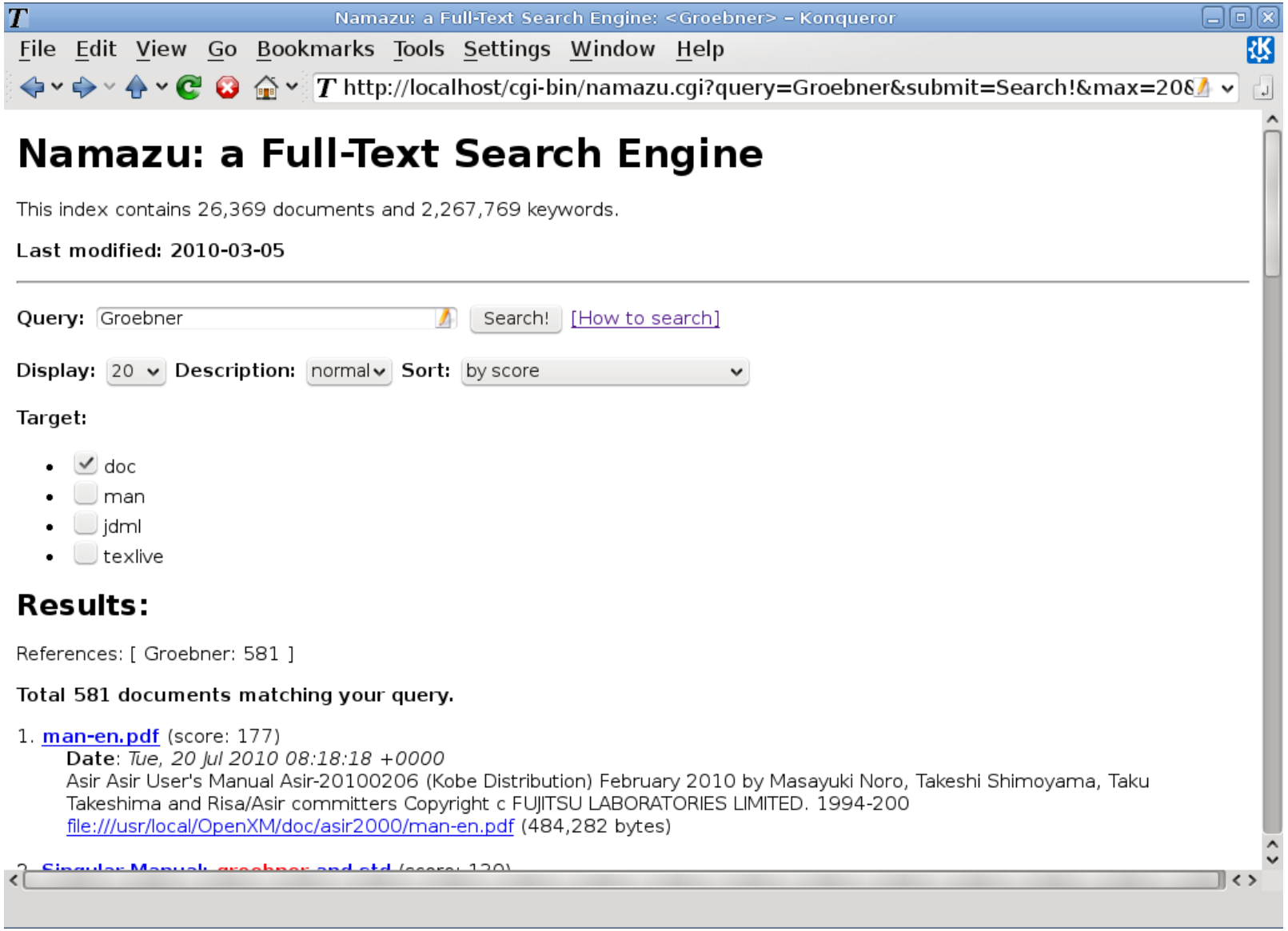
KnxmLauncher



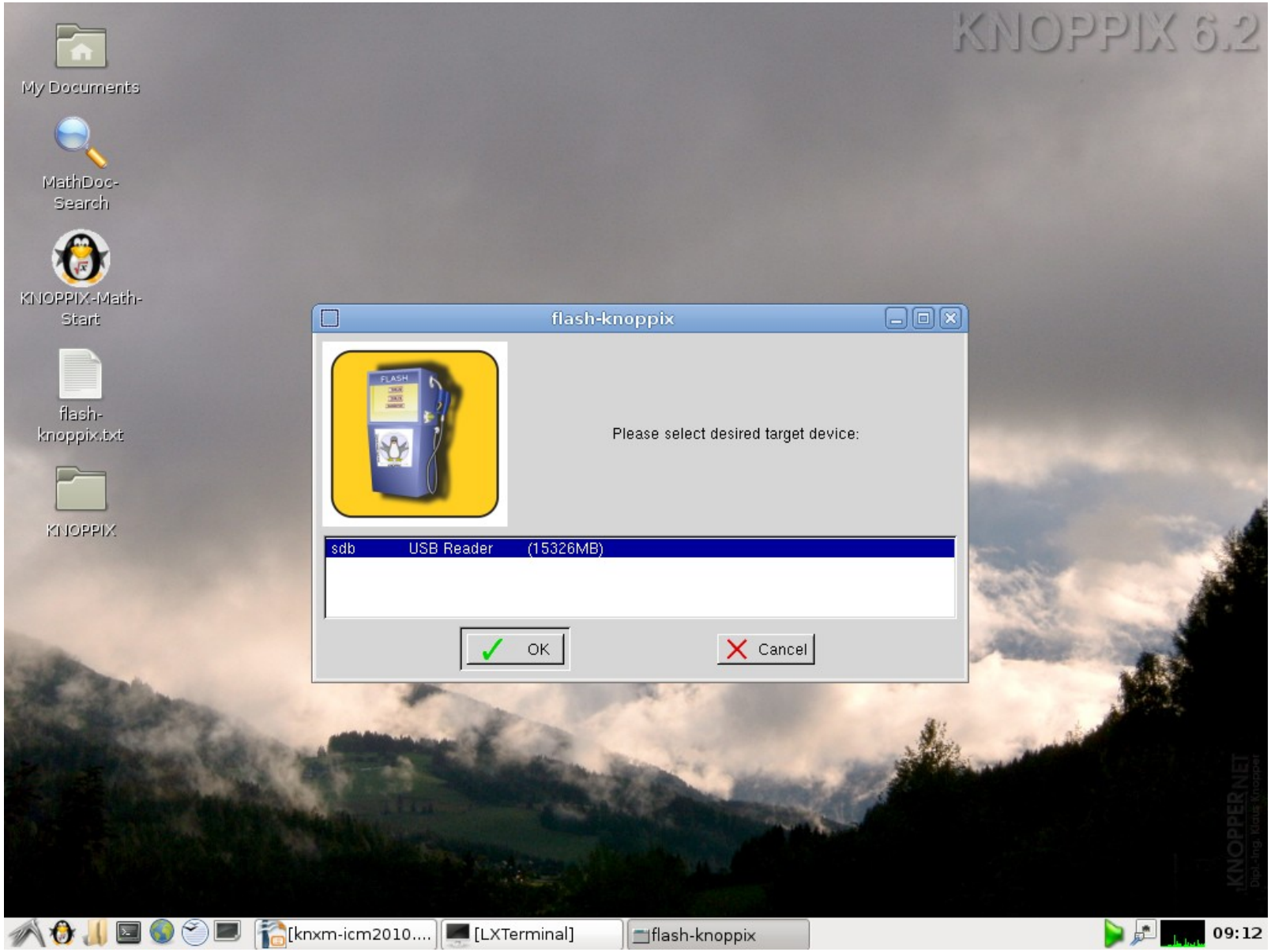
KNOPPIX-Math-Start



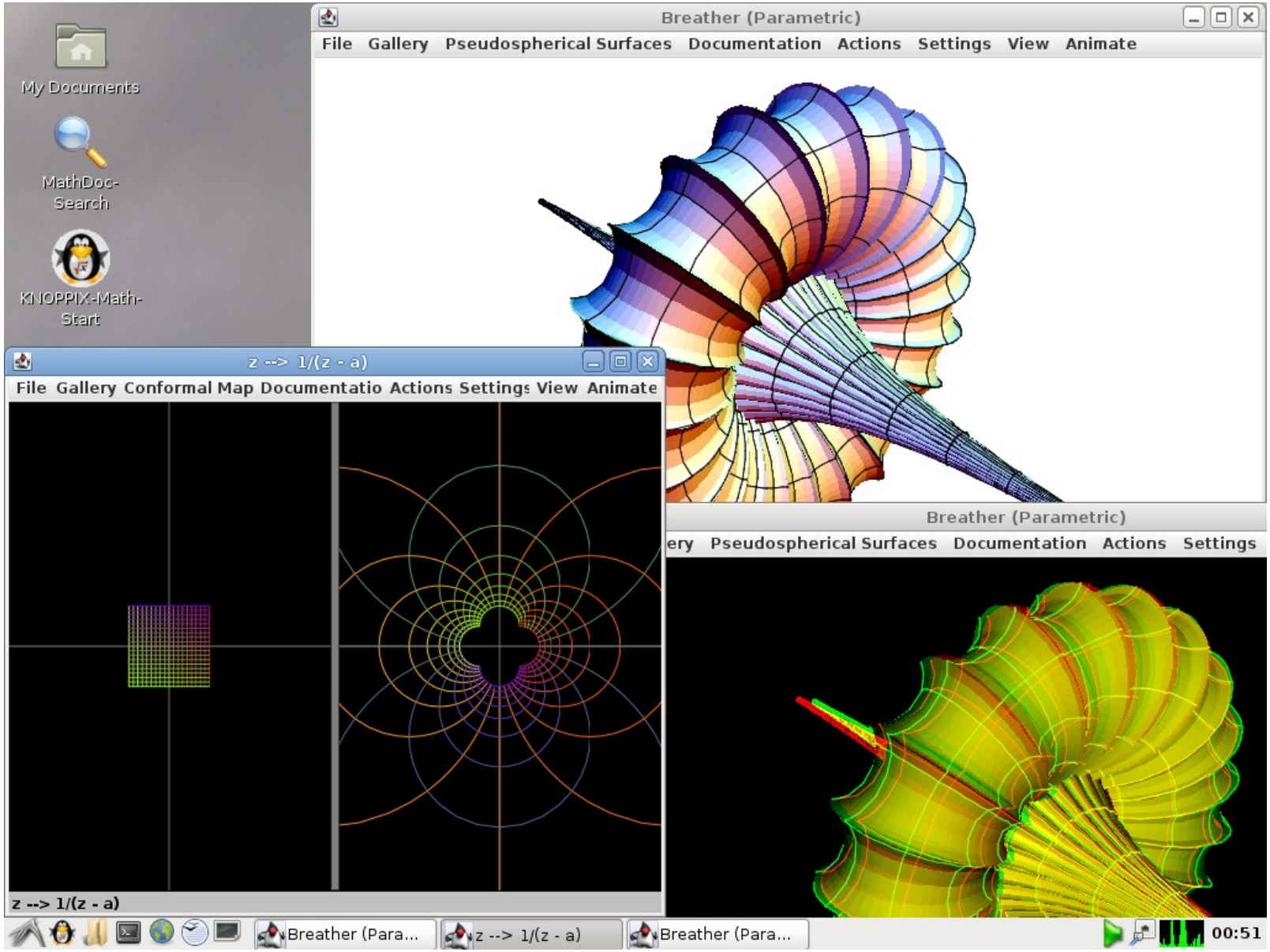
MathDocSearch



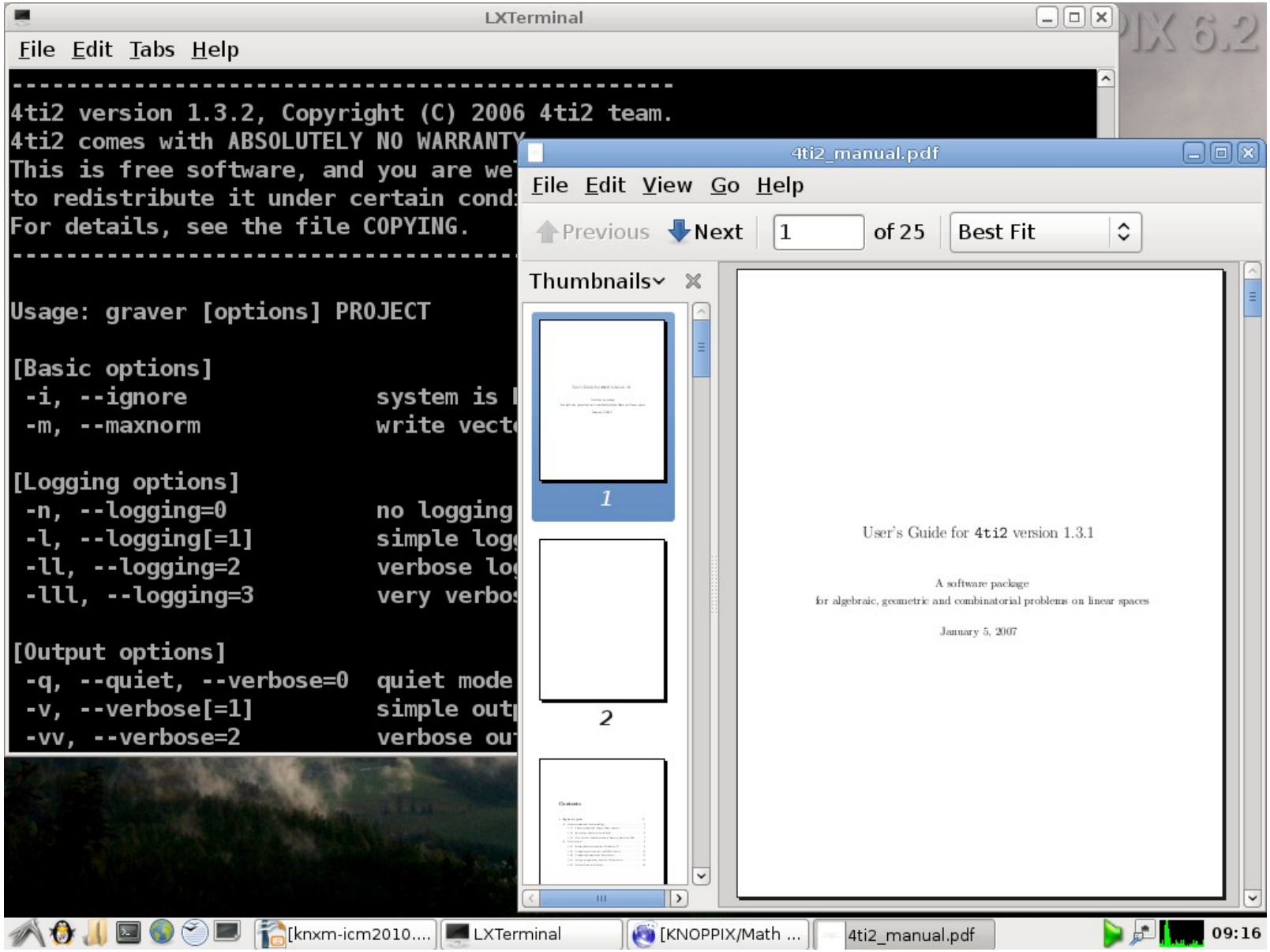
flash-knoppix



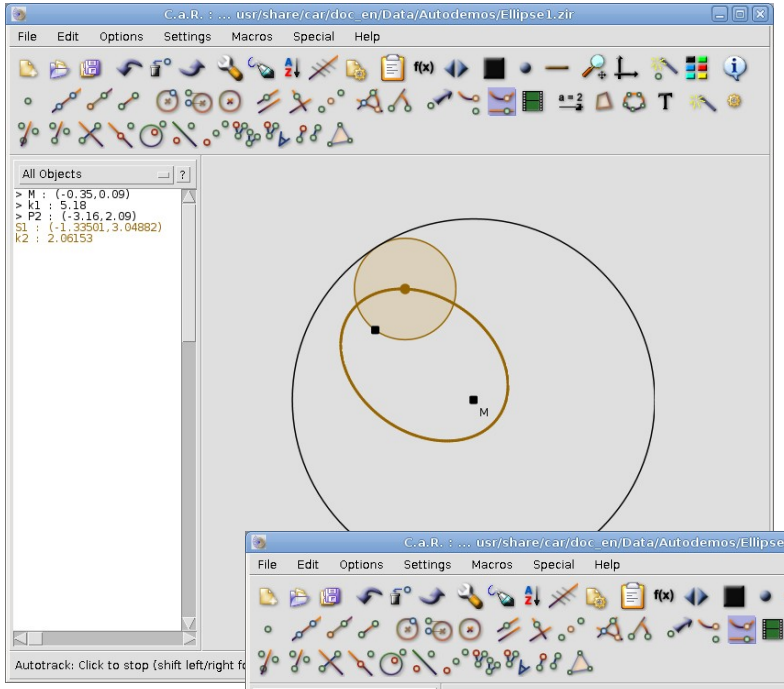
3D-XplorMath-J

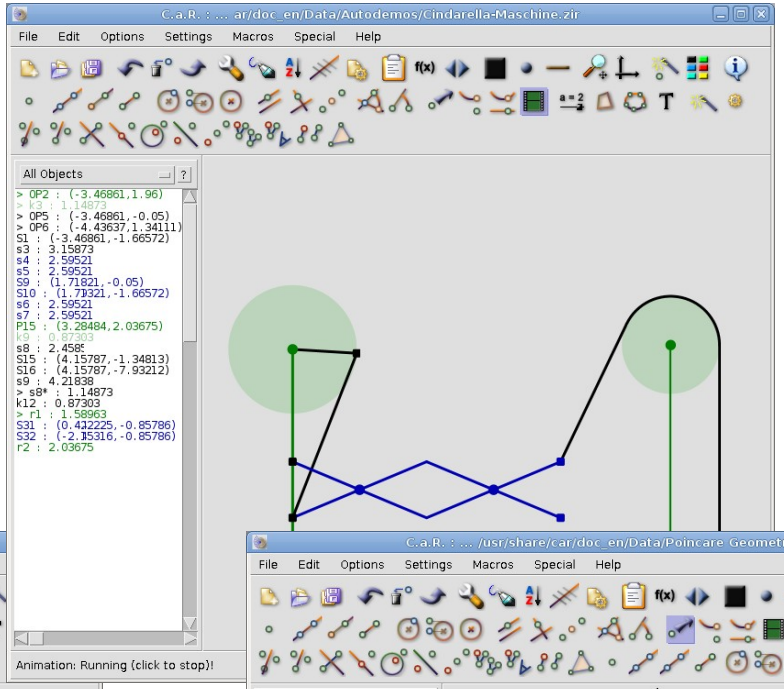


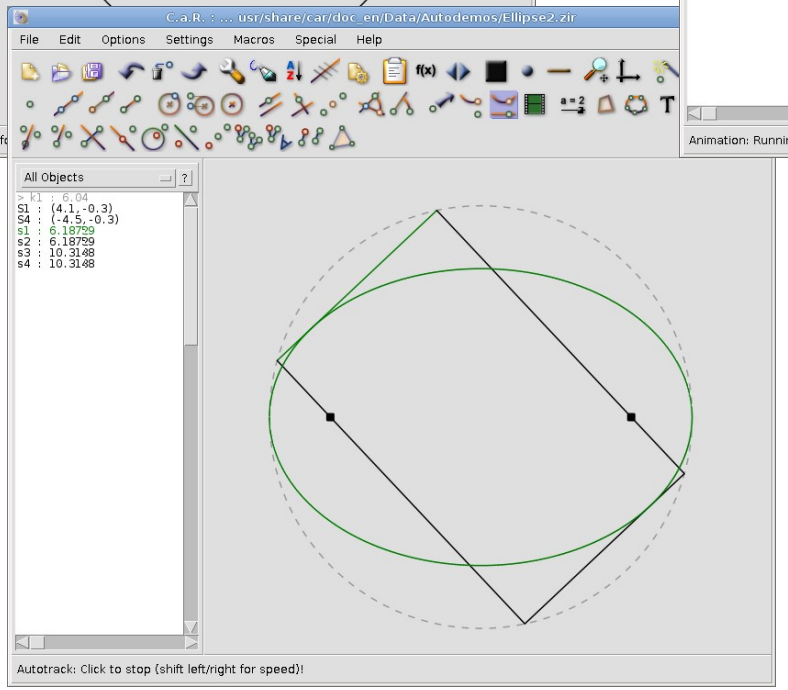
4ti2

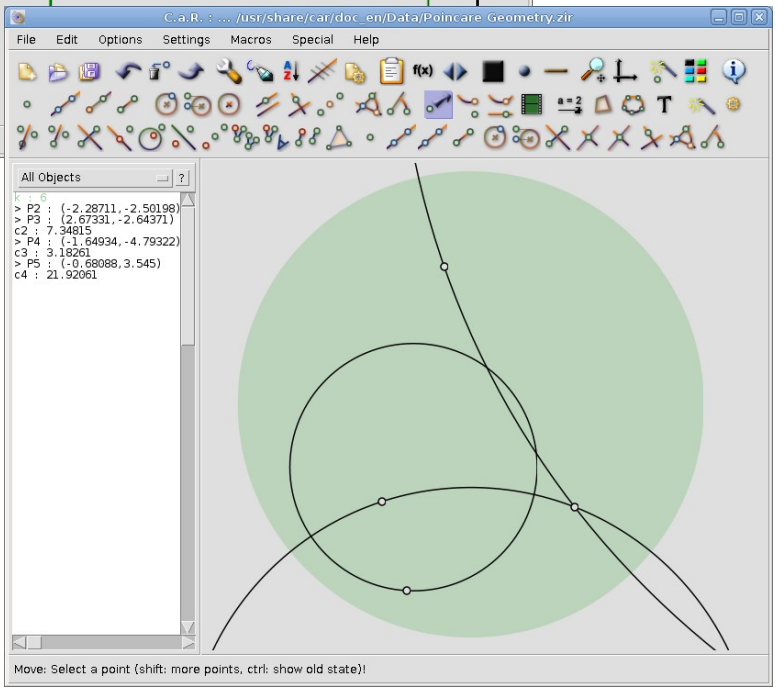

LXTerminal
File Edit Tabs Help
4ti2 version 1.3.2, Copyright (C) 2006 4ti2 team.
4ti2 comes with ABSOLUTELY NO WARRANTY
This is free software, and you are we
to redistribute it under certain cond
For details, see the file COPYING.
Usage: graver [options] PROJECT
[Basic options]
-i, --ignore system is
-m, --maxnorm write vect
[Logging options]
-n, --logging=0 no logging
-l, --logging[=1] simple log
-ll, --logging=2 verbose lo
-lll, --logging=3 very verbo
[Output options]
-q, --quiet, --verbose=0 quiet mode
-v, --verbose[=1] simple out
-vv, --verbose=2 verbose ou
4ti2_manual.pdf
File Edit View Go Help
Previous Next 1 of 25 Best Fit
Thumbnails
1
2
User's Guide for 4ti2 version 1.3.1
A software package
for algebraic, geometric and combinatorial problems on linear spaces
January 5, 2007
[knxm-icm2010....
LXTerminal
[KNOPPIX/Math ...
4ti2_manual.pdf
09:16

C.a.R.

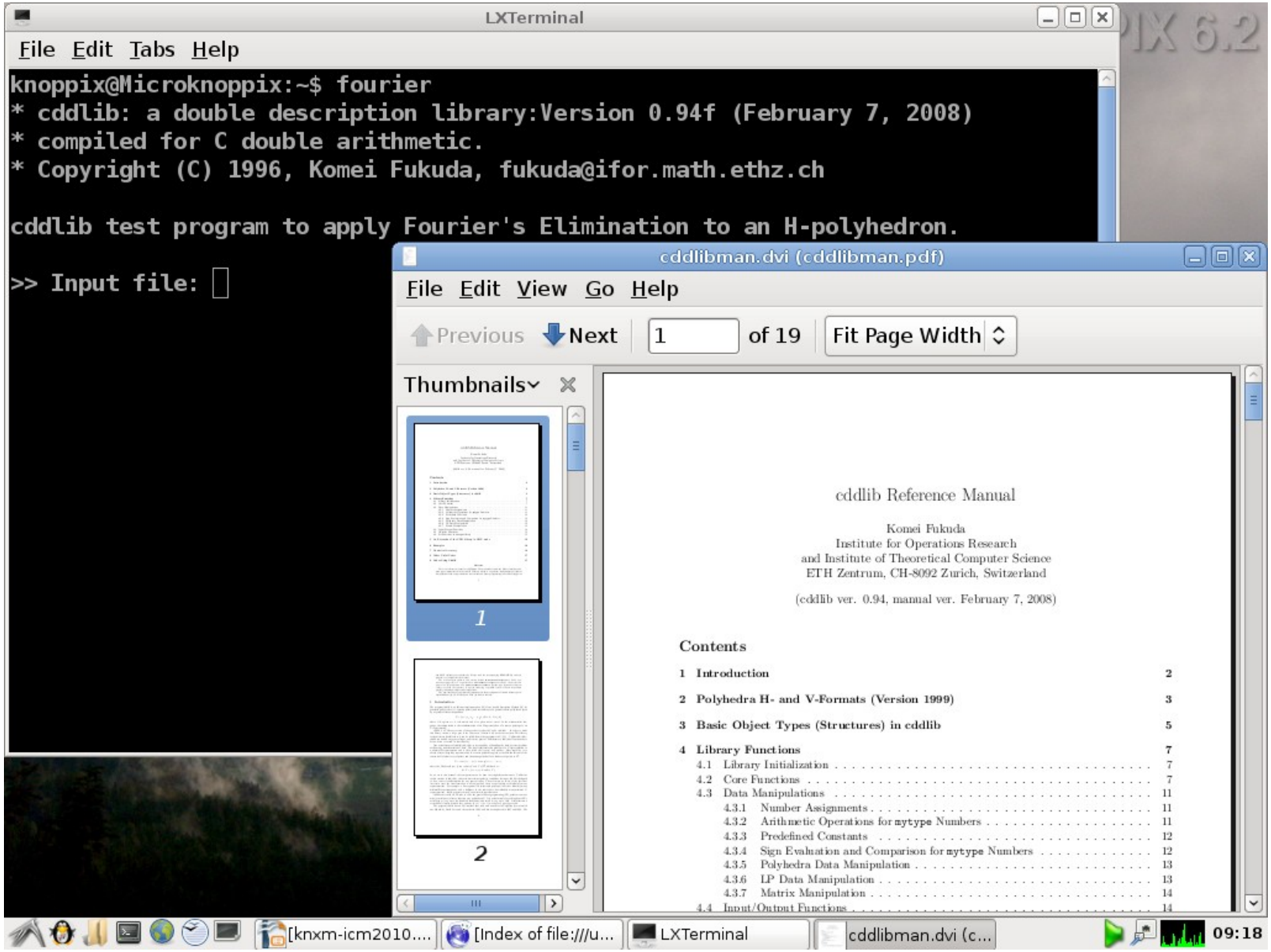

C.a.R. : ... usr/share/car/doc_en/Data/Autodemos/Ellipse1.zir
File Edit Options Settings Macros Special Help
All Objects
> M : (-0.35,0.09)
> k1 : 5.18
> P2 : (-3.16,2.09)
S1 : (-1.33501,3.04882)
k2 : 2.06153
M
Autotrack: Click to stop (shift left/right fo


C.a.R. : ... ar/doc_en/Data/Autodemos/Cindarella-Maschine.zir
File Edit Options Settings Macros Special Help
All Objects
> OP2 : (-3.46861,1.96)
> k3 : 1.14873
> OP5 : (-3.46861,-0.05)
> OP6 : (-4.43637,1.34111)
S1 : (-3.46861,-1.66572)
s3 : 3.15873
s4 : 2.59521
s5 : 2.59521
S9 : (1.71821,-0.05)
S10 : (1.79321,-1.66572)
s6 : 2.59521
s7 : 2.59521
P15 : (3.28484,2.03675)
k8 : 0.87303
s8 : 2.458
S15 : (4.15787,-1.34813)
S16 : (4.15787,-7.93212)
s9 : 4.21838
> s8* : 1.14873
k12 : 0.87303
> r1 : 1.58963
S31 : (0.422225,-0.85786)
S32 : (-2.35316,-0.85786)
r2 : 2.03675
Animation: Running (click to stop)!

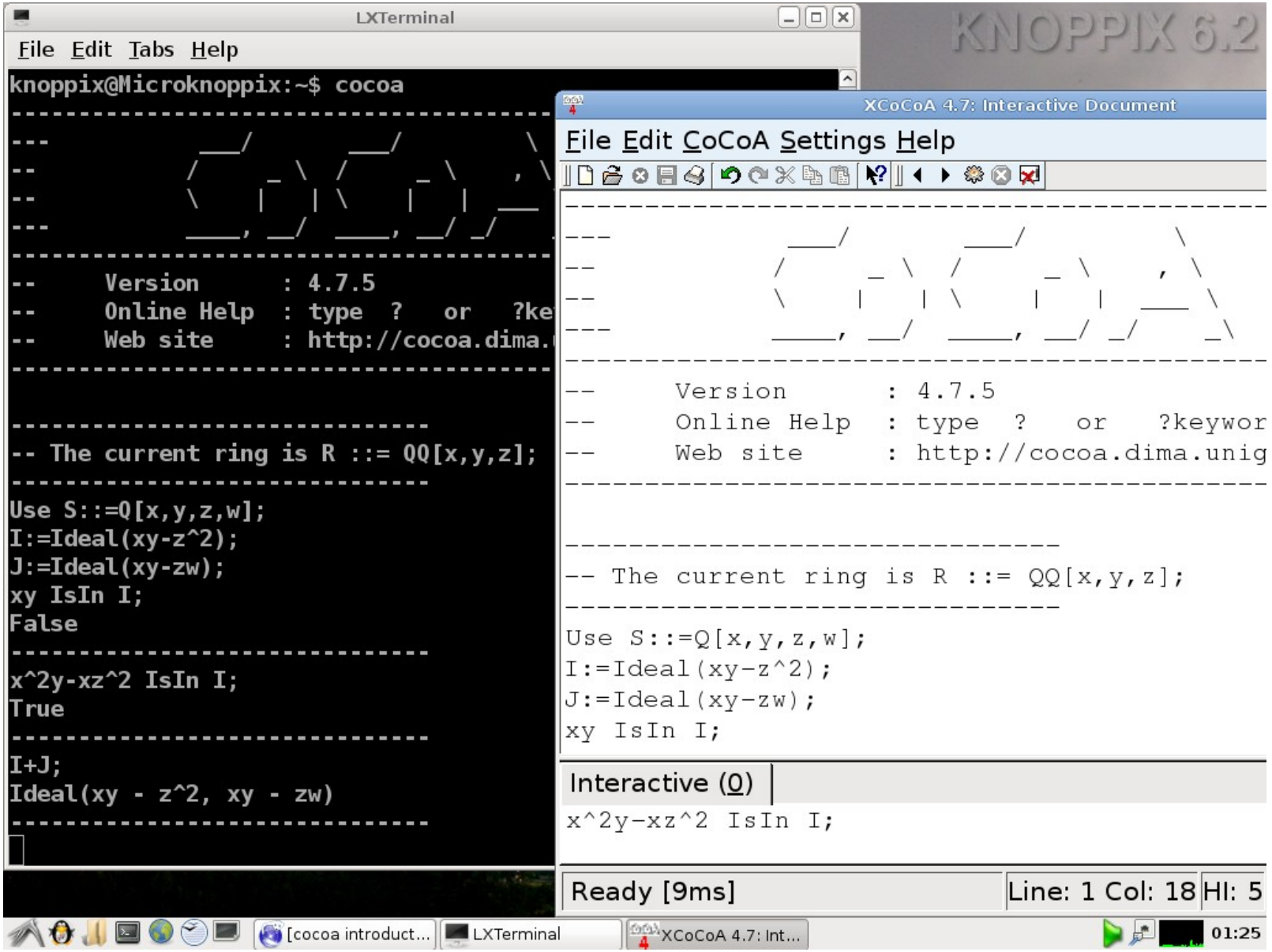

C.a.R. : ... usr/share/car/doc_en/Data/Autodemos/Ellipse2.zir
File Edit Options Settings Macros Special Help
All Objects
> k1 : 6.04
S1 : (4.1,-0.3)
S4 : (-4.5,-0.3)
s1 : 6.18759
s2 : 6.18759
s3 : 10.3148
s4 : 10.3148
Autotrack: Click to stop (shift left/right for speed)!


C.a.R. : ... /usr/share/car/doc_en/Data/Poincare Geometry.zir
File Edit Options Settings Macros Special Help
All Objects
k : 6
> P2 : (-2.28711,-2.50198)
> P3 : (2.67331,-2.64371)
c2 : 7.34815
> P4 : (-1.64934,-4.79322)
c3 : 3.18261
> P5 : (-0.68088,3.545)
c4 : 21.92061
Move: Select a point (shift: more points, ctrl: show old state)!

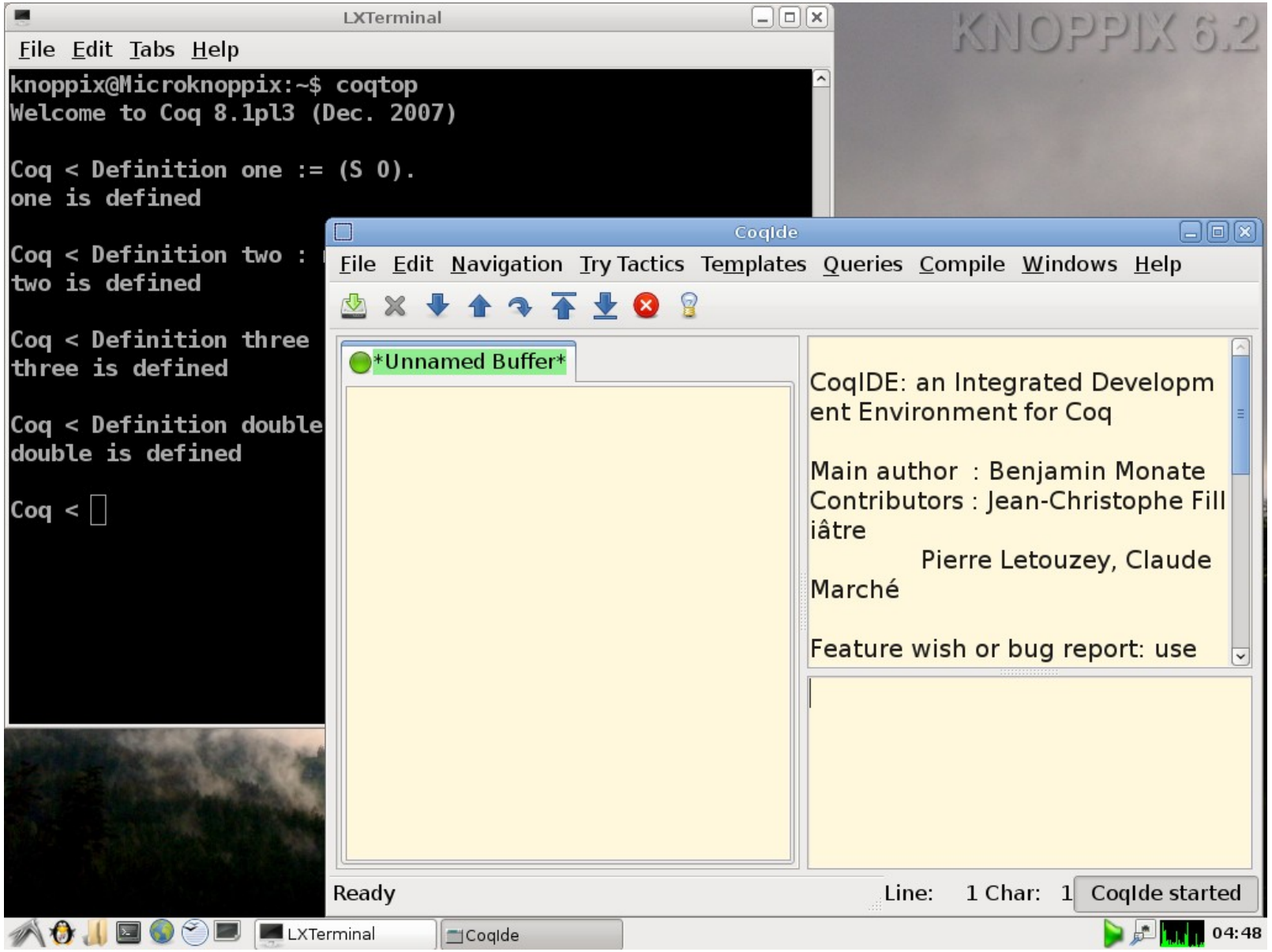
cddlib


LXTerminal
File Edit Tabs Help
knoppix@Microknoppix:~$ fourier
* cddlib: a double description library:Version 0.94f (February 7, 2008)
* compiled for C double arithmetic.
* Copyright (C) 1996, Komei Fukuda, fukuda@ifor.math.ethz.ch
cddlib test program to apply Fourier's Elimination to an H-polyhedron.
>> Input file:
cddlibman.dvi (cddlibman.pdf)
File Edit View Go Help
Previous Next 1 of 19 Fit Page Width
Thumbnails
1
2
cddlib Reference Manual
Komei Fukuda
Institute for Operations Research
and Institute of Theoretical Computer Science
ETH Zentrum, CH-8092 Zurich, Switzerland
(cddlib ver. 0.94, manual ver. February 7, 2008)
Contents
1 Introduction 2
2 Polyhedra H- and V-Formats (Version 1999) 3
3 Basic Object Types (Structures) in cddlib 5
4 Library Functions 7
4.1 Library Initialization 7
4.2 Core Functions 7
4.3 Data Manipulations 11
4.3.1 Number Assignments 11
4.3.2 Arithmetic Operations for mytype Numbers 11
4.3.3 Predefined Constants 12
4.3.4 Sign Evaluation and Comparison for mytype Numbers 12
4.3.5 Polyhedra Data Manipulation 13
4.3.6 LP Data Manipulation 13
4.3.7 Matrix Manipulation 14
4.4 Input/Output Functions 14
[knxm-icm2010....
[Index of file:///u...
LXTerminal
cddlibman.dvi (c...
09:18

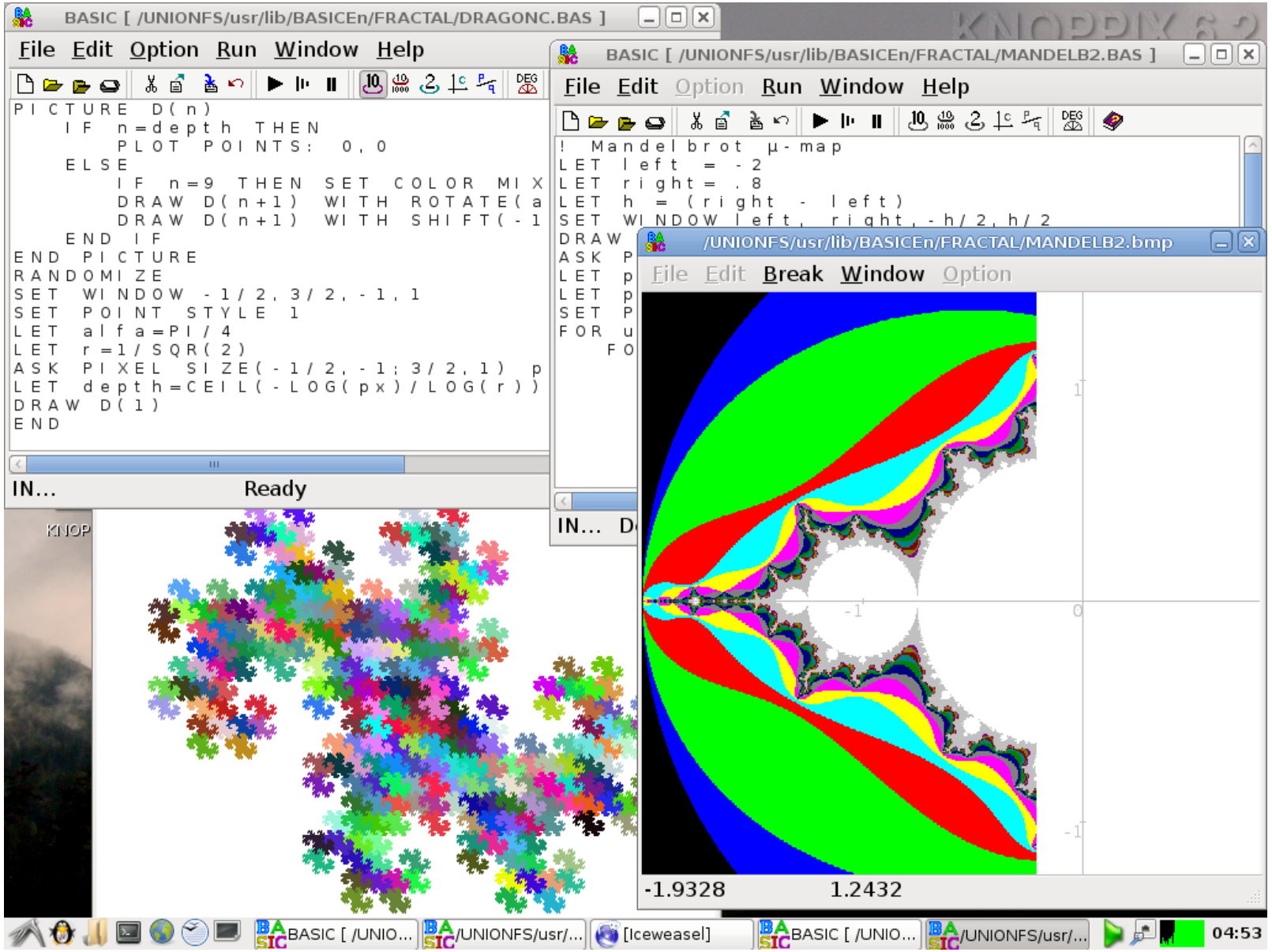
CoCoA


LXTerminal
File Edit Tabs Help
knoppix@Microknoppix:~$ cocoa
-- Version : 4.7.5
-- Online Help : type ? or ?ke
-- Web site : http://cocoa.dima.
-- The current ring is R ::= QQ[x,y,z];
Use S::=Q[x,y,z,w];
I:=Ideal(xy-z^2);
J:=Ideal(xy-zw);
xy IsIn I;
False
x^2y-xz^2 IsIn I;
True
I+J;
Ideal(xy - z^2, xy - zw)
KNOPPIX 6.2
XCoCoA 4.7: Interactive Document
File Edit CoCoA Settings Help
-- Version : 4.7.5
-- Online Help : type ? or ?keywor
-- Web site : http://cocoa.dima.unig
-- The current ring is R ::= QQ[x,y,z];
Use S::=Q[x,y,z,w];
I:=Ideal(xy-z^2);
J:=Ideal(xy-zw);
xy IsIn I;
Interactive (0)
x^2y-xz^2 IsIn I;
Ready [9ms]
Line: 1 Col: 18
HI: 5
[cocoa introduct...
LXTerminal
XCoCoA 4.7: Int...
01:25

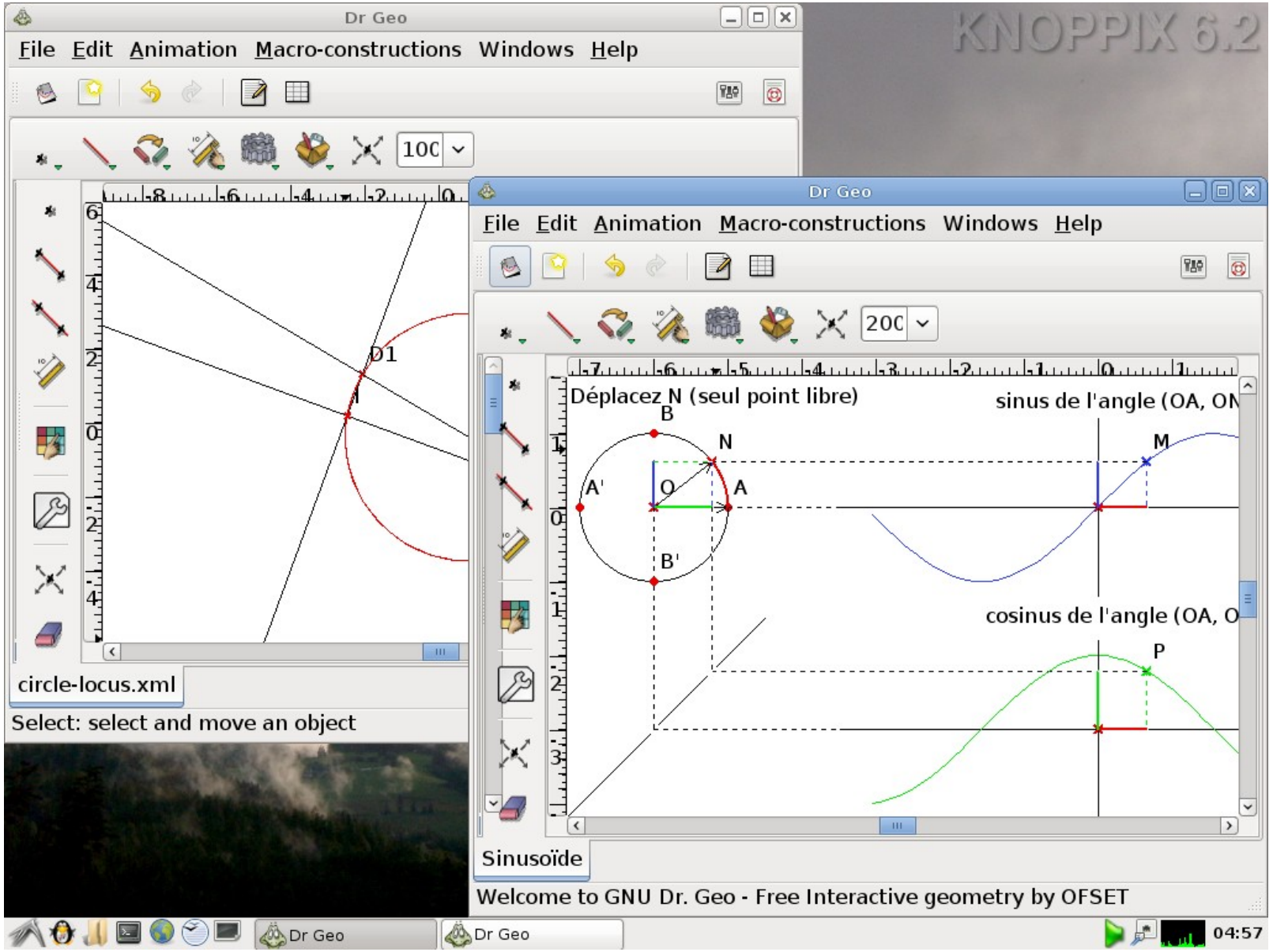
Coq


LXTerminal
File Edit Tabs Help
knoppix@Microknoppix:~$ coqtop
Welcome to Coq 8.1pl3 (Dec. 2007)
Coq < Definition one := (S 0).
one is defined
Coq < Definition two :
two is defined
Coq < Definition three
three is defined
Coq < Definition double
double is defined
Coq <
KNOPPIX 6.2
CoqIde
File Edit Navigation Try Tactics Templates Queries Compile Windows Help
Unnamed Buffer
CoqIDE: an Integrated Developm
ent Environment for Coq
Main author : Benjamin Monate
Contributors : Jean-Christophe Fill
iâtre
Pierre Letouzey, Claude
Marché
Feature wish or bug report: use
Ready
Line: 1 Char: 1
CoqIde started
LXTerminal
CoqIde
04:48

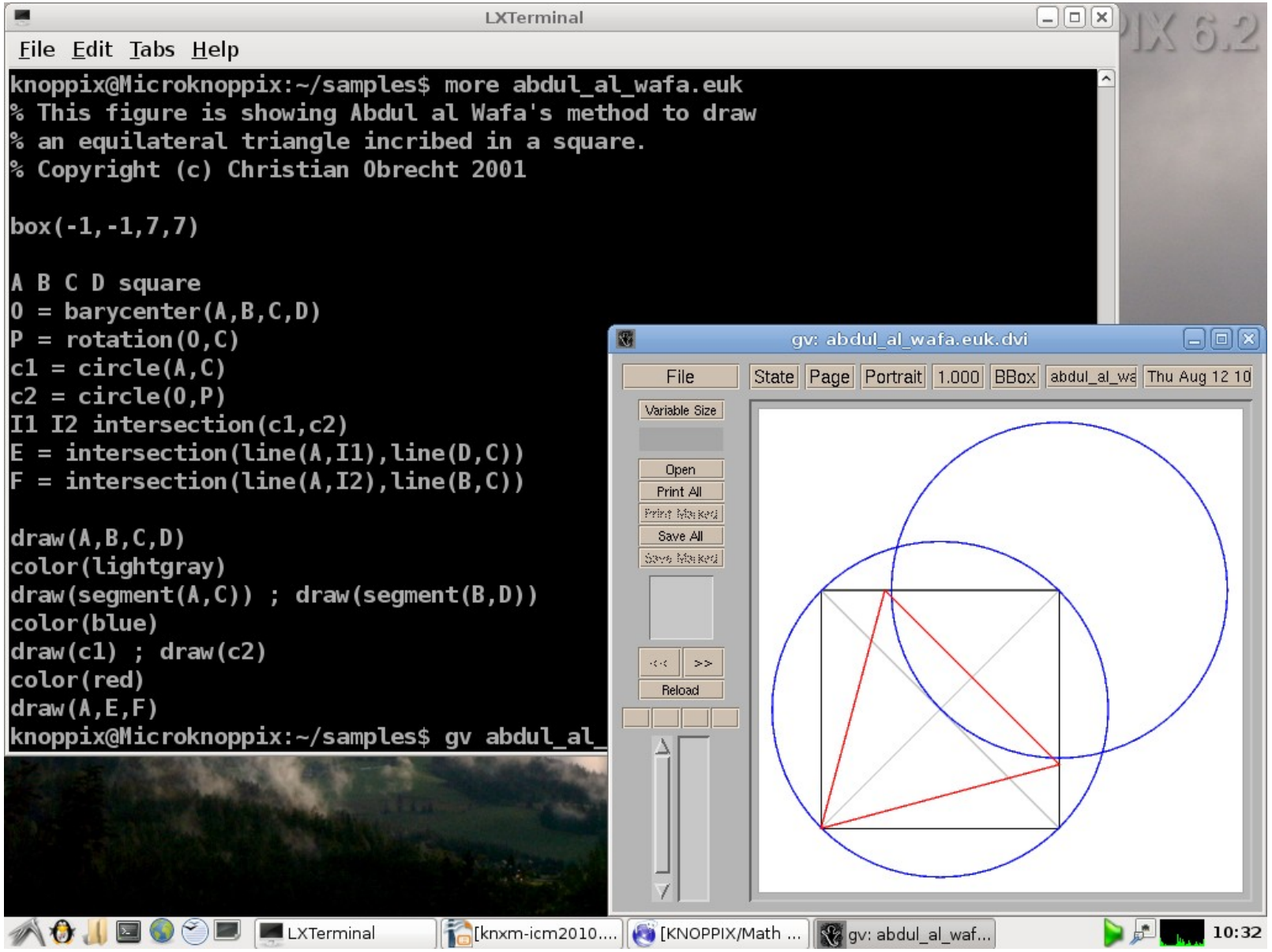
DecimalBasic



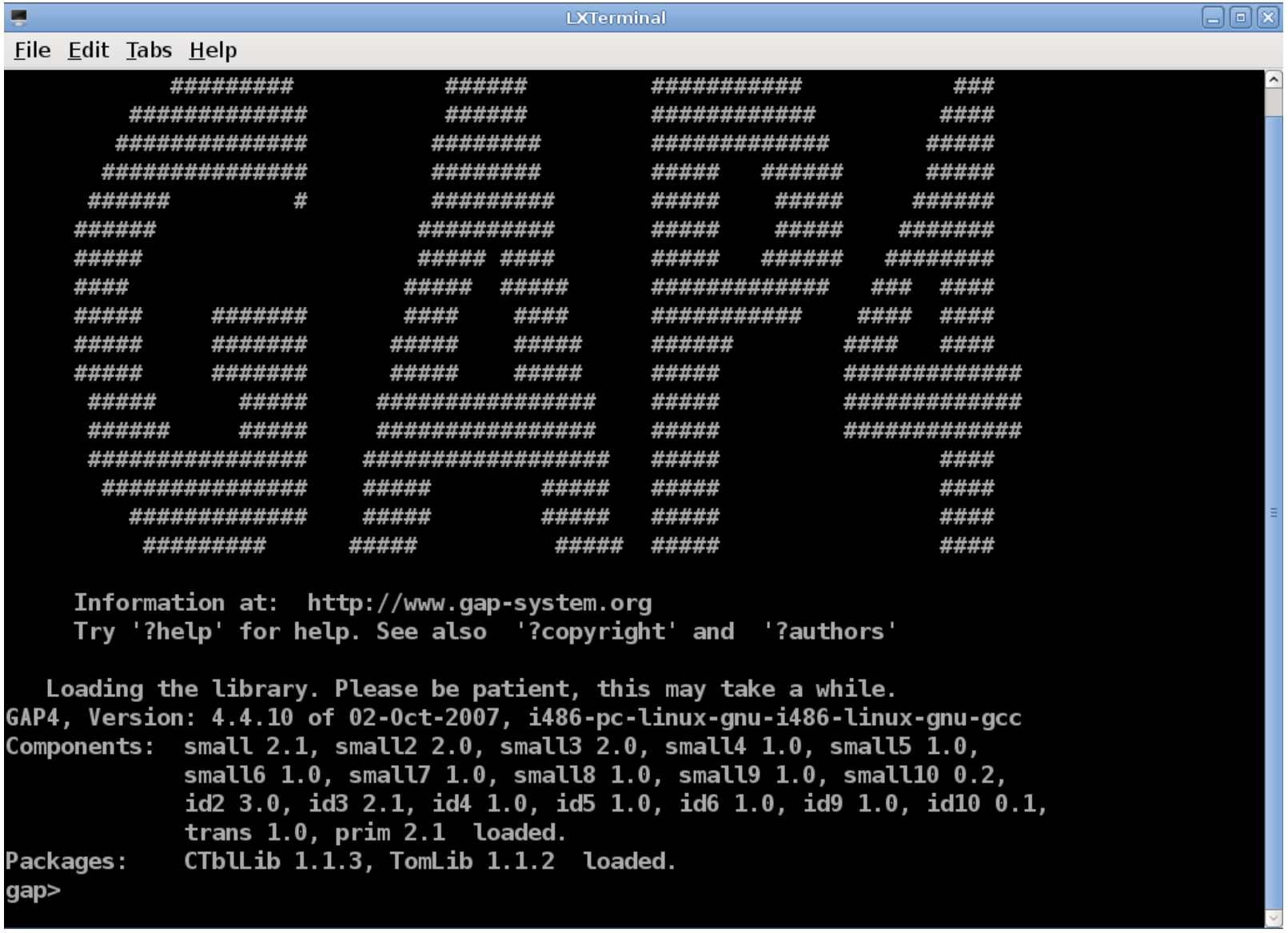
DrGeo


Dr Geo
File Edit Animation Macro-constructions Windows Help
KNOPPIX 6.2
D1
circle-locus.xml
Select: select and move an object
Dr Geo
File Edit Animation Macro-constructions Windows Help
Déplacez N (seul point libre)
sinus de l'angle (OA, ON
cosinus de l'angle (OA, O
B
N
M
A'
O
A
B'
P
Sinusoïde
Welcome to GNU Dr. Geo - Free Interactive geometry by OFSET
Dr Geo
Dr Geo
04:57

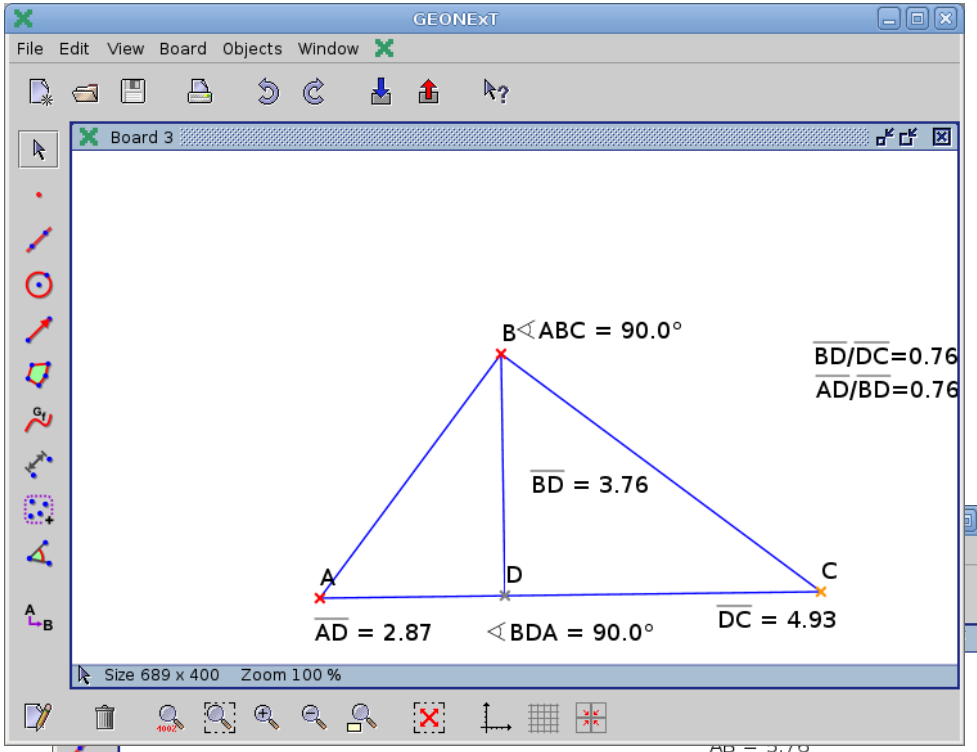
Eukleides

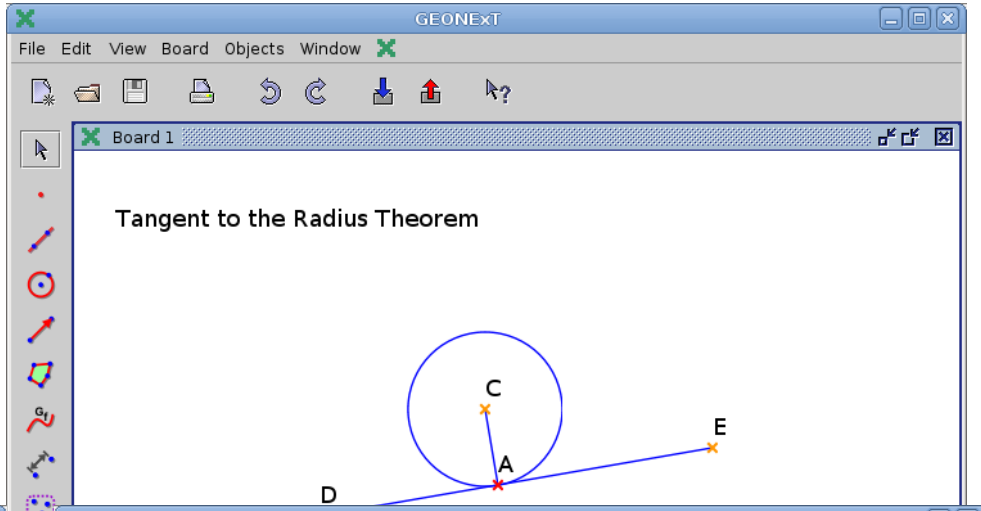

LXTerminal
File Edit Tabs Help
knoppix@Microknoppix:~/samples$ more abdul_al_wafa.euk
% This figure is showing Abdul al Wafa's method to draw
% an equilateral triangle incribed in a square.
% Copyright (c) Christian Obrecht 2001
box(-1,-1,7,7)
A B C D square
O = barycenter(A,B,C,D)
P = rotation(O,C)
c1 = circle(A,C)
c2 = circle(O,P)
I1 I2 intersection(c1,c2)
E = intersection(line(A,I1),line(D,C))
F = intersection(line(A,I2),line(B,C))
draw(A,B,C,D)
color(lightgray)
draw(segment(A,C)) ; draw(segment(B,D))
color(blue)
draw(c1) ; draw(c2)
color(red)
draw(A,E,F)
knoppix@Microknoppix:~/samples$ gv abdul_al_
gv: abdul_al_wafa.euk.dvi
File State Page Portrait 1.000 BBox abdul_al_wa Thu Aug 12 10
Variable Size
Open
Print All
Save All
Reload
LXTerminal
[knxm-icm2010....
[KNOPPIX/Math ...
gv: abdul_al_waf...
10:32

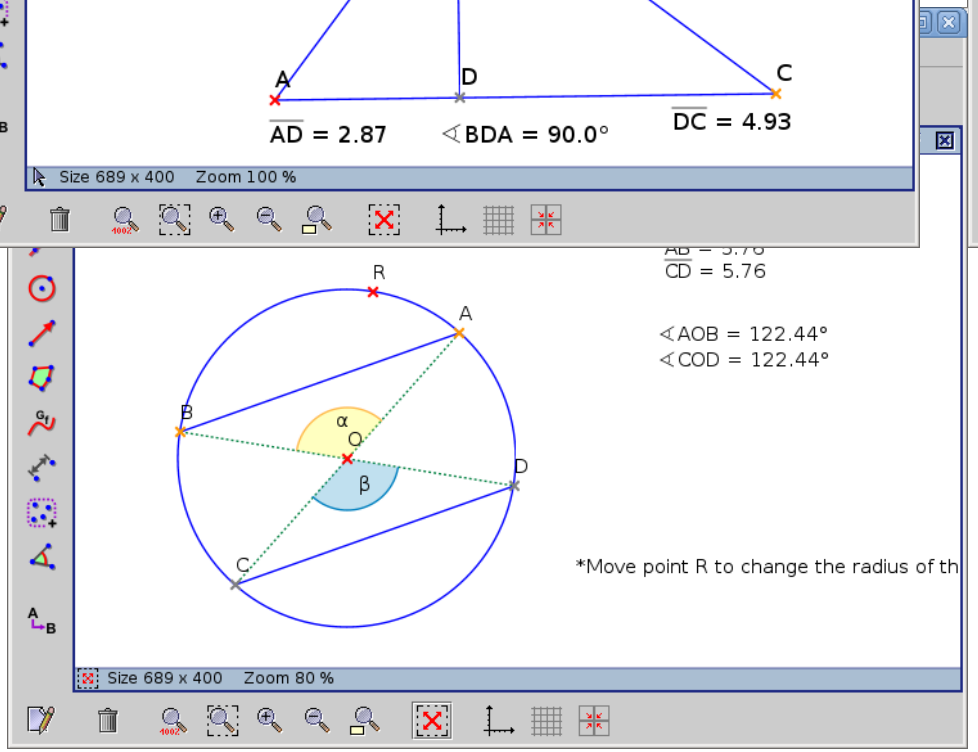
GAP

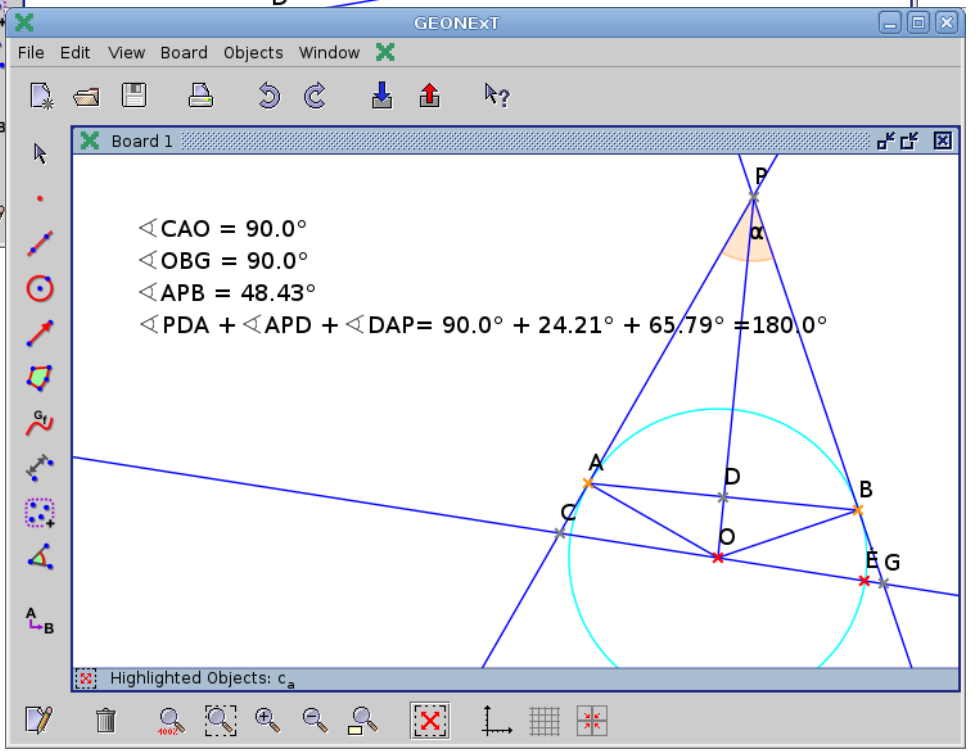

LXTerminal
File Edit Tabs Help
Information at: http://www.gap-system.org
Try '?help' for help. See also '?copyright' and '?authors'
Loading the library. Please be patient, this may take a while.
GAP4, Version: 4.4.10 of 02-Oct-2007, i486-pc-linux-gnu-i486-linux-gnu-gcc
Components: small 2.1, small2 2.0, small3 2.0, small4 1.0, small5 1.0,
small6 1.0, small7 1.0, small8 1.0, small9 1.0, small10 0.2,
id2 3.0, id3 2.1, id4 1.0, id5 1.0, id6 1.0, id9 1.0, id10 0.1,
trans 1.0, prim 2.1 loaded.
Packages: CTblLib 1.1.3, TomLib 1.1.2 loaded.
gap>

GEONExT

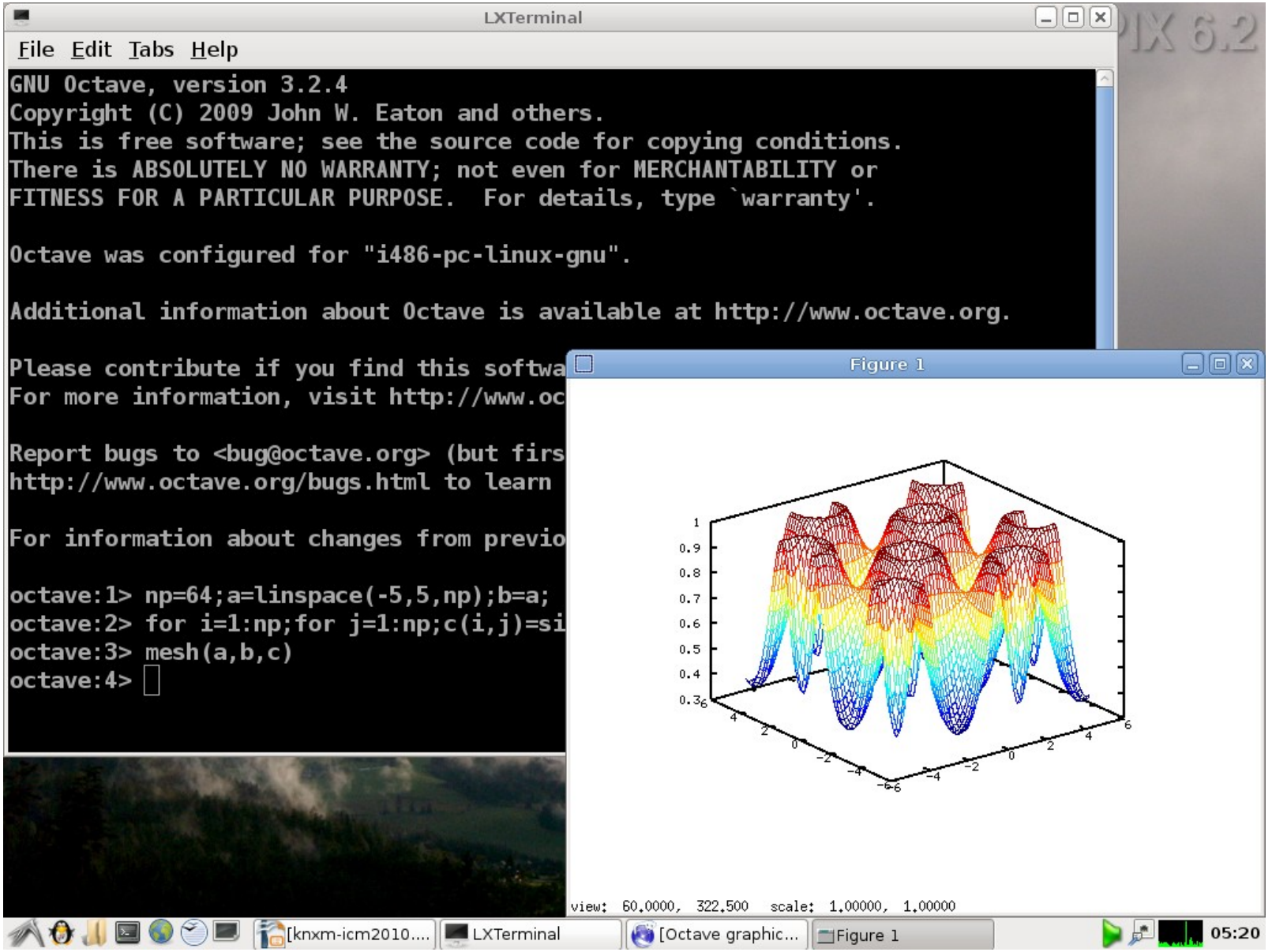

GEONExT
File Edit View Board Objects Window
Board 3
B
∢ABC = 90.0°
BD/DC=0.76
AD/BD=0.76
BD = 3.76
A
D
C
AD = 2.87
∢BDA = 90.0°
DC = 4.93
Size 689 x 400 Zoom 100 %


GEONExT
File Edit View Board Objects Window
Board 1
Tangent to the Radius Theorem
C
E
A
D

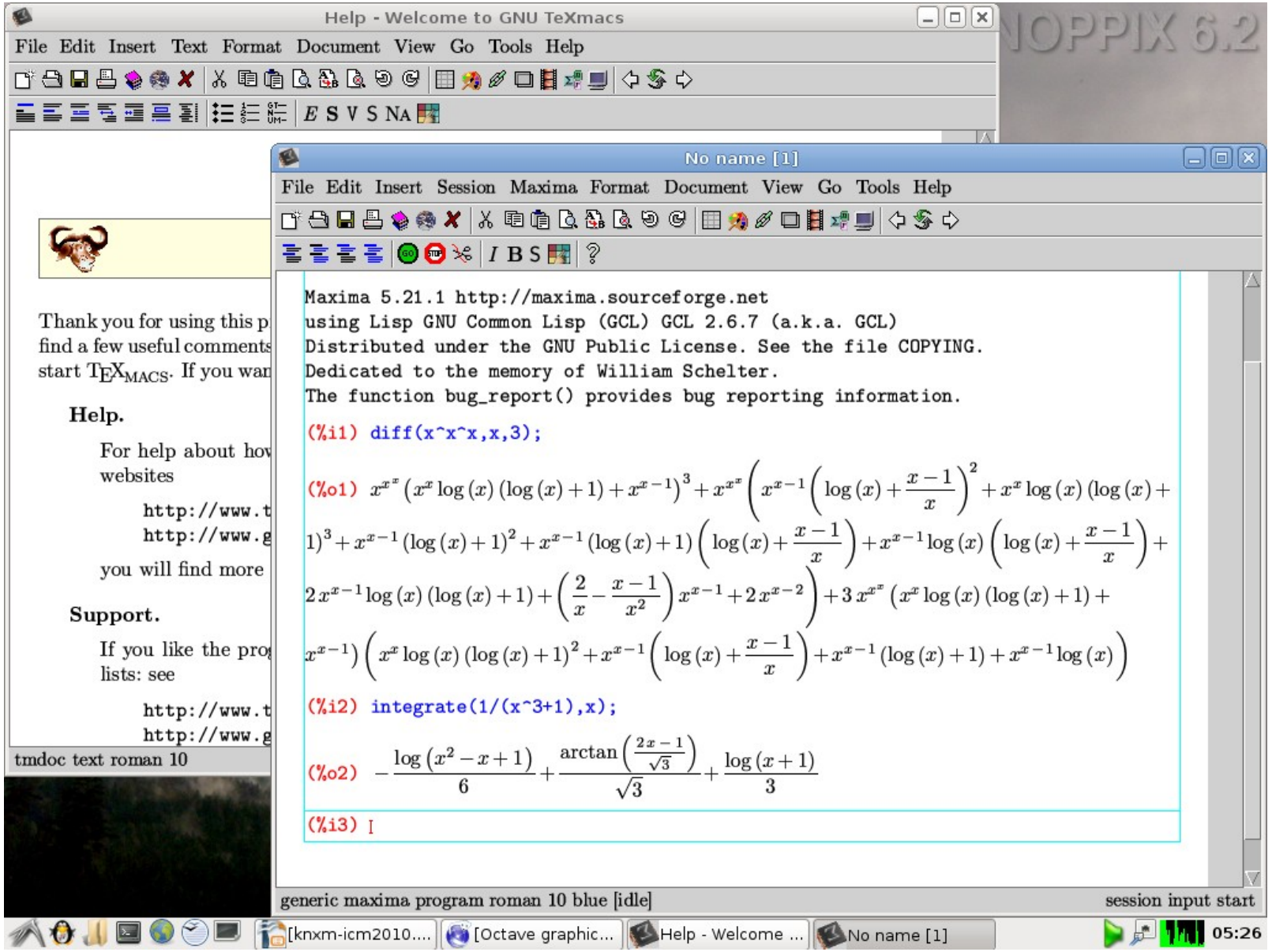

CD = 5.76
R
A
B
α
O
β
D
C
∢AOB = 122.44°
∢COD = 122.44°
*Move point R to change the radius of th
Size 689 x 400 Zoom 80 %


GEONExT
File Edit View Board Objects Window
Board 1
∢CAO = 90.0°
∢OBG = 90.0°
∢APB = 48.43°
∢PDA + ∢APD + ∢DAP= 90.0° + 24.21° + 65.79° =180.0°
P
α
A
D
B
C
O
E
G
Highlighted Objects: c_a

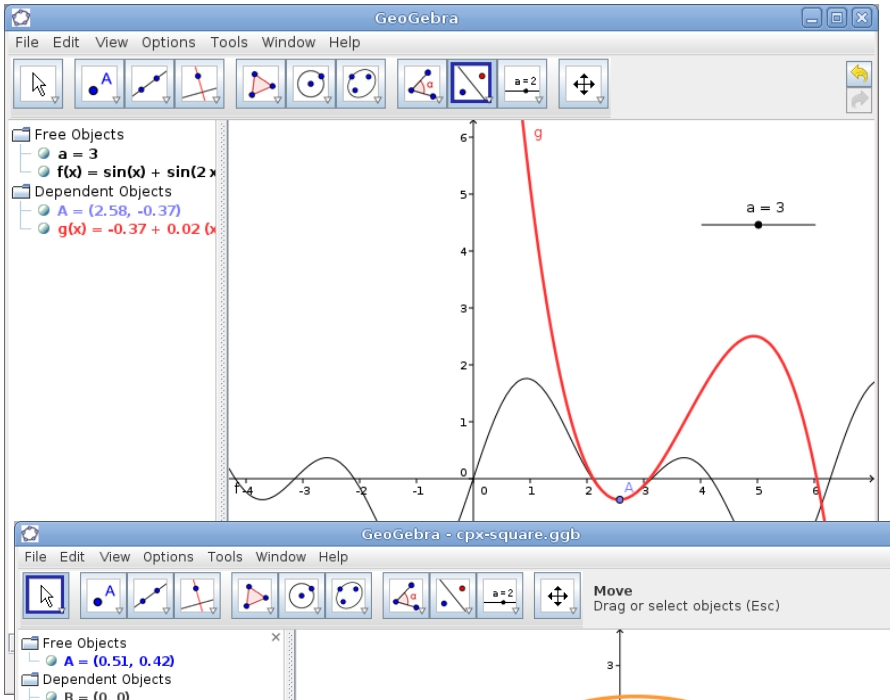
Gnu Octave

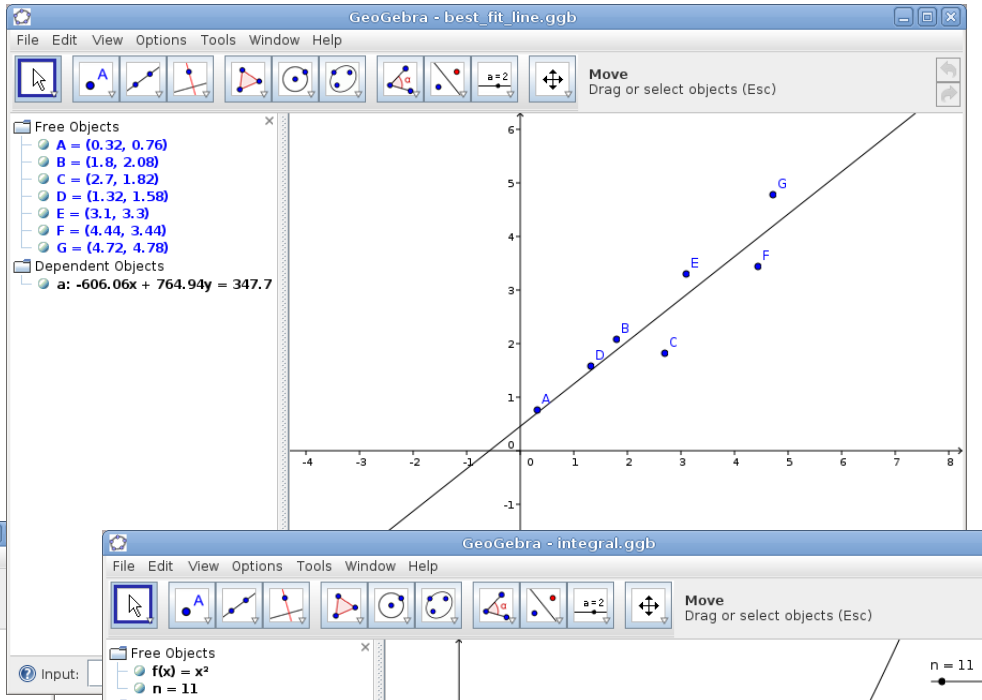

LXTerminal
File Edit Tabs Help
GNU Octave, version 3.2.4
Copyright (C) 2009 John W. Eaton and others.
This is free software; see the source code for copying conditions.
There is ABSOLUTELY NO WARRANTY; not even for MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. For details, type `warranty'.
Octave was configured for "i486-pc-linux-gnu".
Additional information about Octave is available at http://www.octave.org.
Please contribute if you find this softwa
For more information, visit http://www.oc
Report bugs to <bug@octave.org> (but firs
http://www.octave.org/bugs.html to learn
For information about changes from previo
octave:1> np=64;a=linspace(-5,5,np);b=a;
octave:2> for i=1:np;for j=1:np;c(i,j)=si
octave:3> mesh(a,b,c)
octave:4>
Figure 1
view: 60.0000, 322.500 scale: 1.00000, 1.00000
[knxm-icm2010....
LXTerminal
[Octave graphic...
Figure 1
05:20

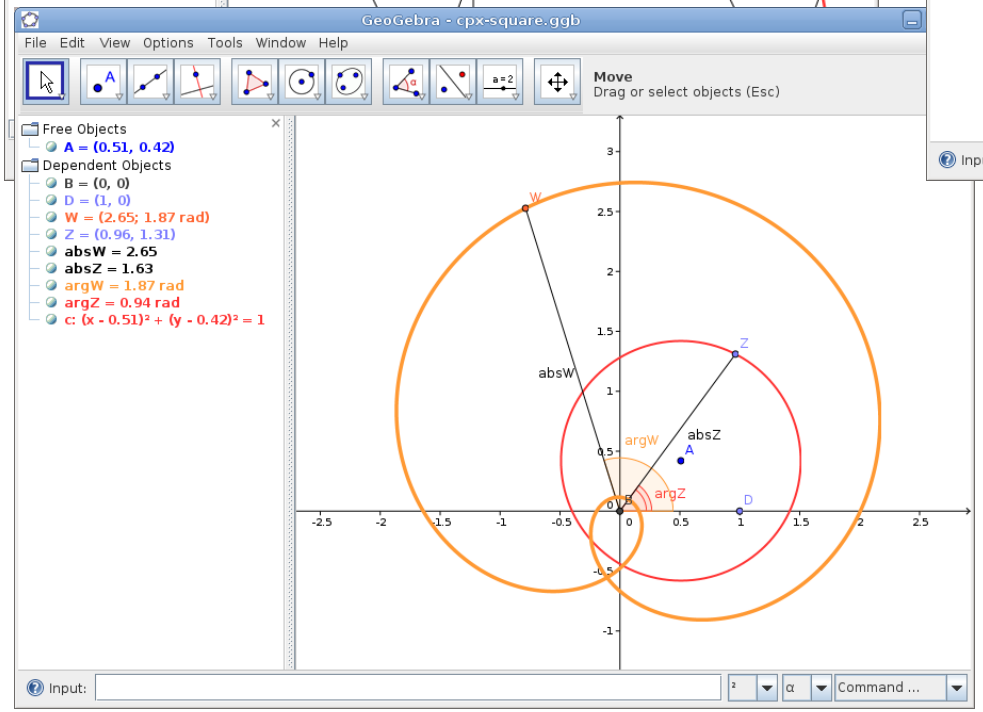
GNU TeXmacs

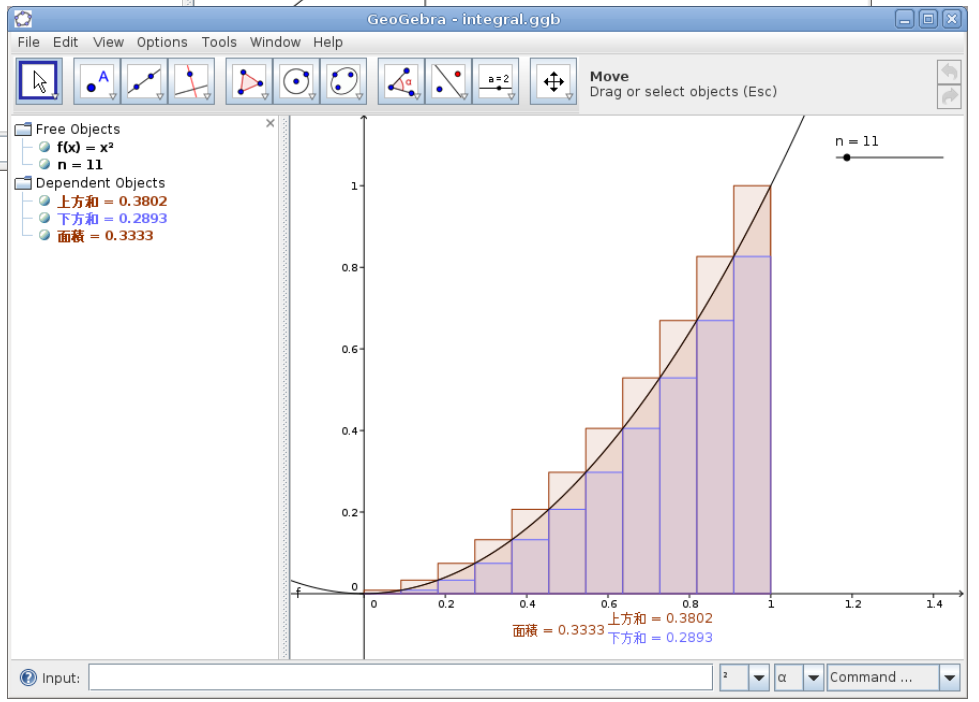

Help - Welcome to GNU TeXmacs
File Edit Insert Text Format Document View Go Tools Help
Thank you for using this p
find a few useful comments
start TEXMACS. If you wan
Help.
For help about hov
websites
http://www.t
http://www.g
you will find more
Support.
If you like the pro
lists: see
http://www.t
http://www.g
tmdoc text roman 10
No name [1]
File Edit Insert Session Maxima Format Document View Go Tools Help
Maxima 5.21.1 http://maxima.sourceforge.net
using Lisp GNU Common Lisp (GCL) GCL 2.6.7 (a.k.a. GCL)
Distributed under the GNU Public License. See the file COPYING.
Dedicated to the memory of William Schelter.
The function bug_report() provides bug reporting information.
(%i1) diff(x^x^x,x,3);
(%o1) $x^{x^x}\left(x^x\log(x)\left(\log(x)+1\right)+x^{x-1}\right)^3+x^{x^x}\left(x^{x-1}\left(\log(x)+\frac{x-1}{x}\right)^2+x^x\log(x)\left(\log(x)+1\right)^3+x^{x-1}\left(\log(x)+1\right)^2+x^{x-1}\left(\log(x)+1\right)\left(\log(x)+\frac{x-1}{x}\right)+x^{x-1}\log(x)\left(\log(x)+\frac{x-1}{x}\right)+2x^{x-1}\log(x)\left(\log(x)+1\right)+\left(\frac{2}{x}-\frac{x-1}{x^2}\right)x^{x-1}+2x^{x-2}\right)+3x^{x^x}\left(x^x\log(x)\left(\log(x)+1\right)+x^{x-1}\right)\left(x^x\log(x)\left(\log(x)+1\right)^2+x^{x-1}\left(\log(x)+\frac{x-1}{x}\right)+x^{x-1}\left(\log(x)+1\right)+x^{x-1}\log(x)\right)$
(%i2) integrate(1/(x^3+1),x);
(%o2) $-\frac{\log\left(x^2-x+1\right)}{6}+\frac{\arctan\left(\frac{2x-1}{\sqrt{3}}\right)}{\sqrt{3}}+\frac{\log(x+1)}{3}$
(%i3)
generic maxima program roman 10 blue [idle]
session input start
[knxm-icm2010....
[Octave graphic...
Help - Welcome ...
No name [1]
05:26

GeoGebra

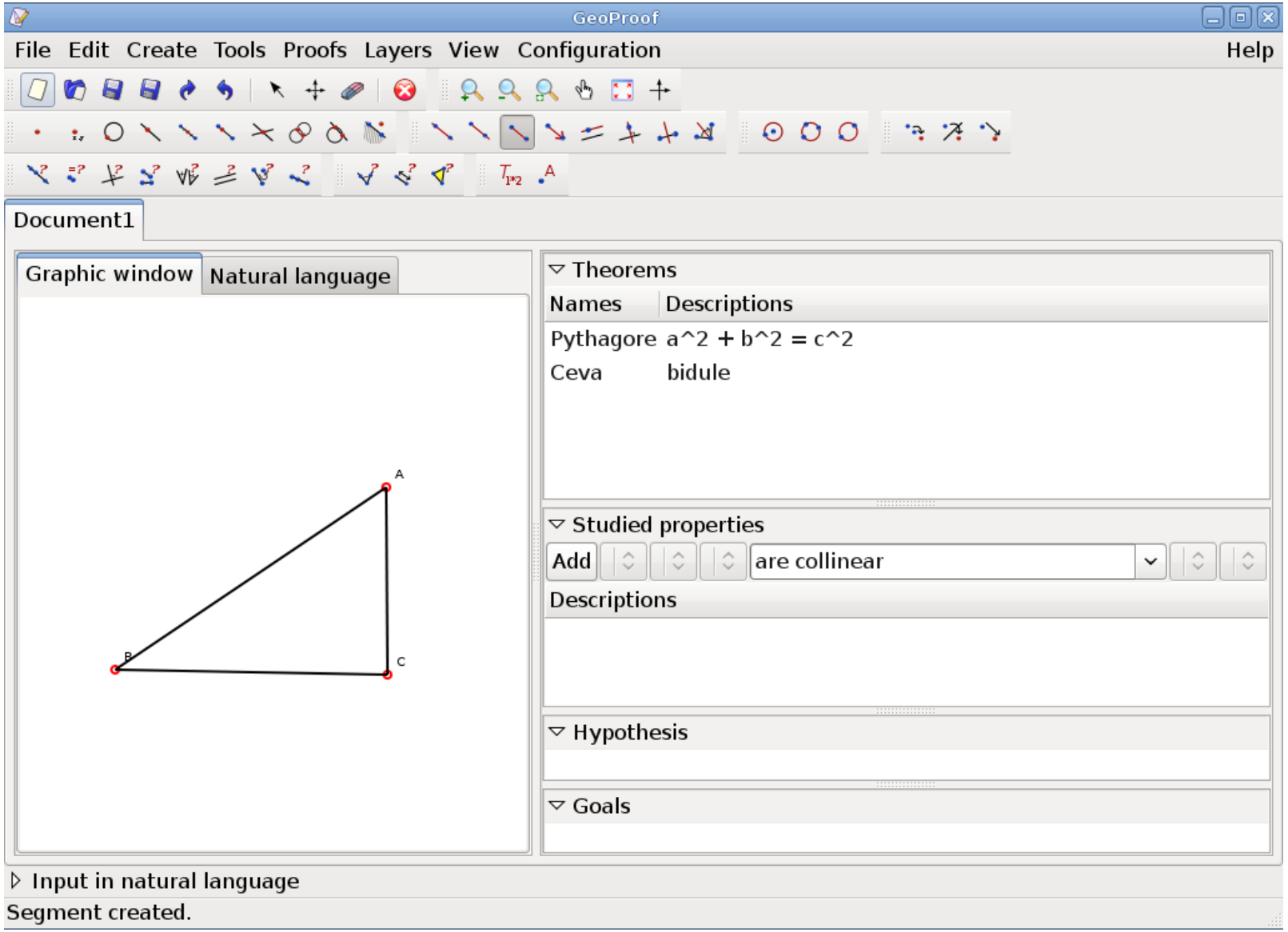

GeoGebra
File Edit View Options Tools Window Help
Free Objects
a = 3
f(x) = sin(x) + sin(2 x
Dependent Objects
A = (2.58, -0.37)
g(x) = -0.37 + 0.02 (x
g
a = 3
A


GeoGebra - best_fit_line.ggb
File Edit View Options Tools Window Help
Move
Drag or select objects (Esc)
Free Objects
A = (0.32, 0.76)
B = (1.8, 2.08)
C = (2.7, 1.82)
D = (1.32, 1.58)
E = (3.1, 3.3)
F = (4.44, 3.44)
G = (4.72, 4.78)
Dependent Objects
a: -606.06x + 764.94y = 347.7
Input:

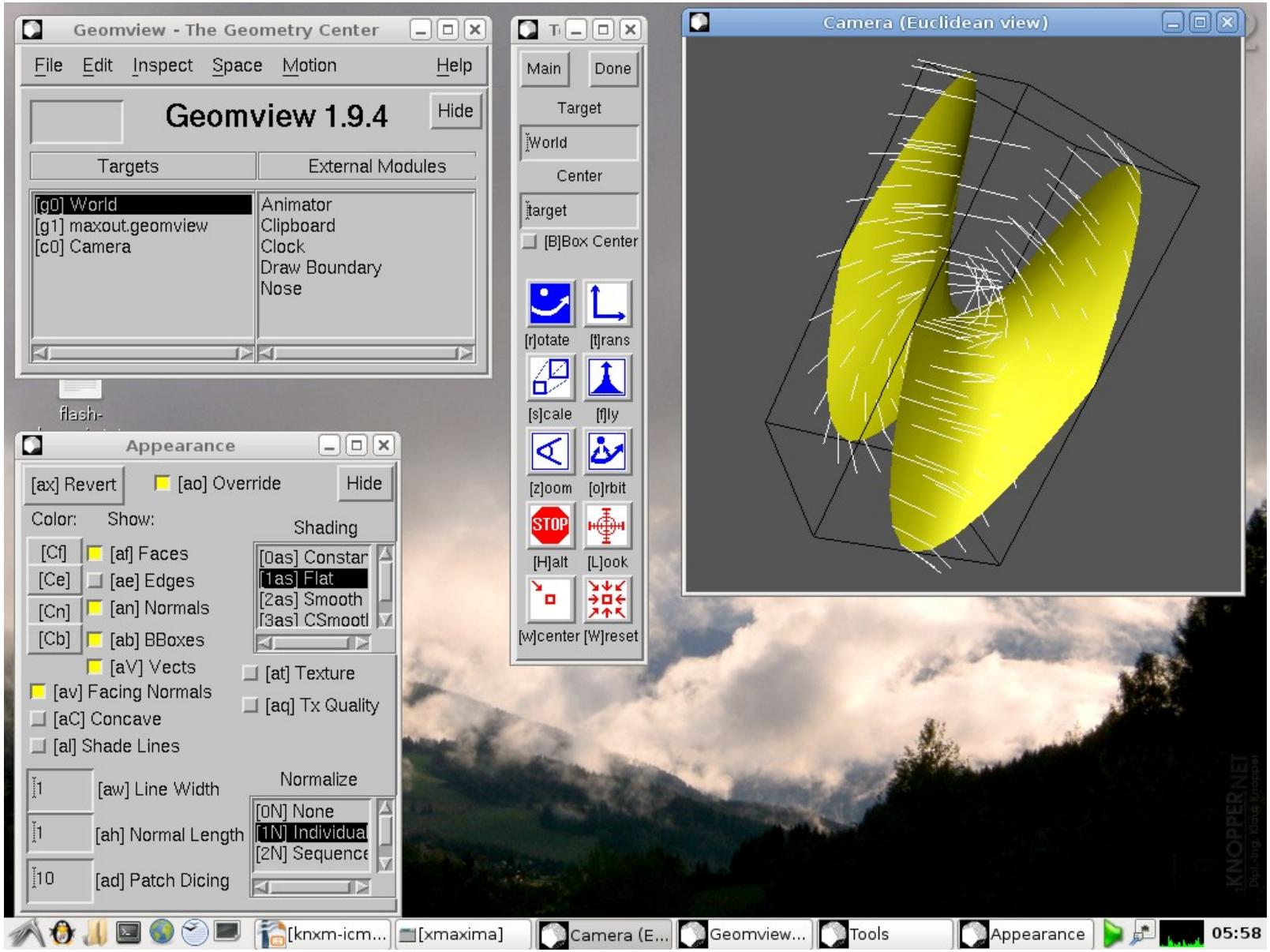

GeoGebra - cpx-square.ggb
File Edit View Options Tools Window Help
Move
Drag or select objects (Esc)
Free Objects
A = (0.51, 0.42)
Dependent Objects
B = (0, 0)
D = (1, 0)
W = (2.65; 1.87 rad)
Z = (0.96, 1.31)
absW = 2.65
absZ = 1.63
argW = 1.87 rad
argZ = 0.94 rad
c: (x - 0.51)² + (y - 0.42)² = 1
W
Z
absW
absZ
argW
argZ
A
B
D
Input:
Command ...


GeoGebra - integral.ggb
File Edit View Options Tools Window Help
Move
Drag or select objects (Esc)
Free Objects
f(x) = x²
n = 11
Dependent Objects
上方和 = 0.3802
下方和 = 0.2893
面積 = 0.3333
n = 11
面積 = 0.3333 上方和 = 0.3802
下方和 = 0.2893
Input:
Command ...

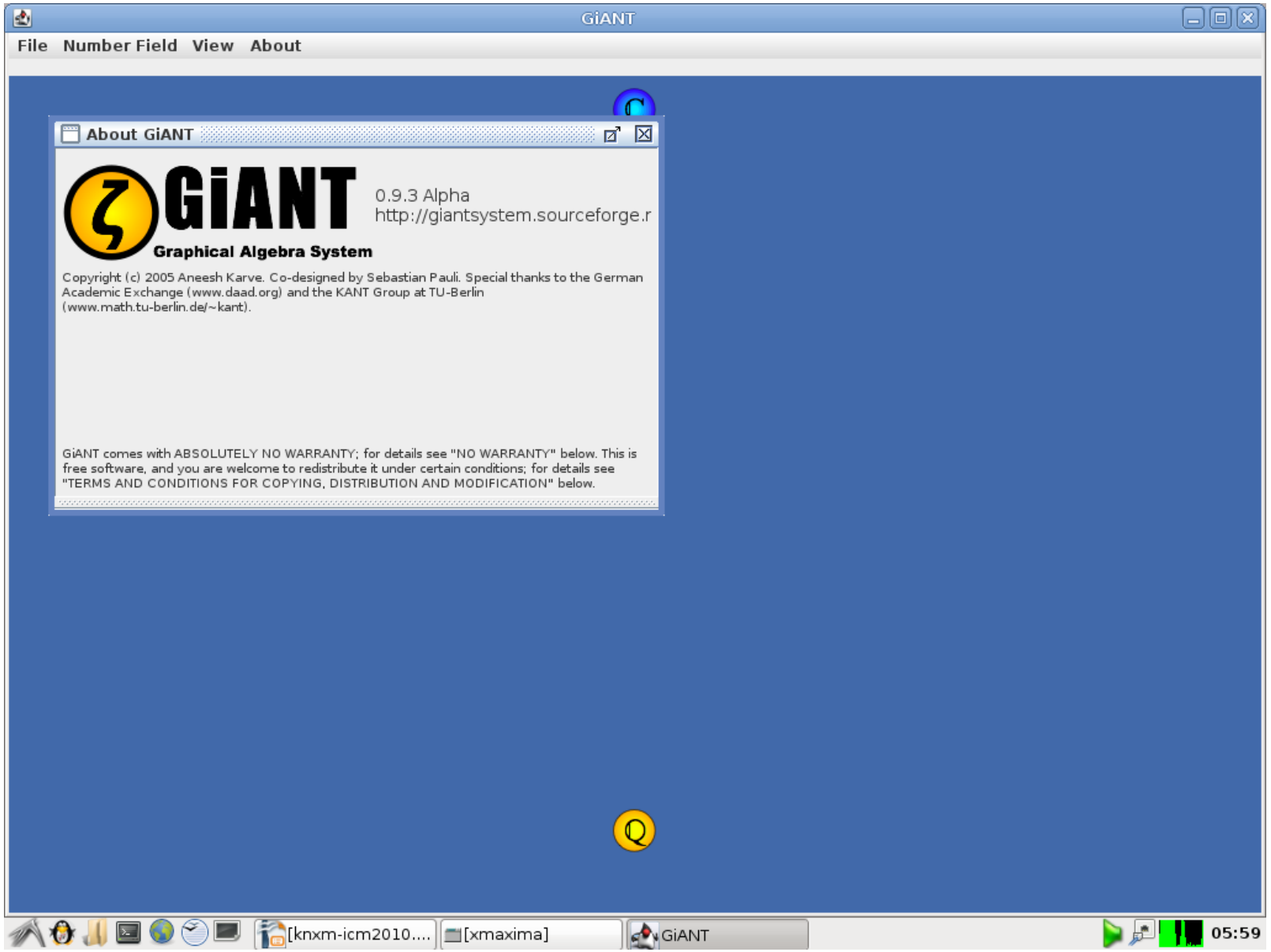
GeoProof


GeoProof
File Edit Create Tools Proofs Layers View Configuration Help
Document1
Graphic window
Natural language
A
B
C
Theorems
Names
Descriptions
Pythagore
a^2 + b^2 = c^2
Ceva
bidule
Studied properties
Add
are collinear
Descriptions
Hypothesis
Goals
Input in natural language
Segment created.

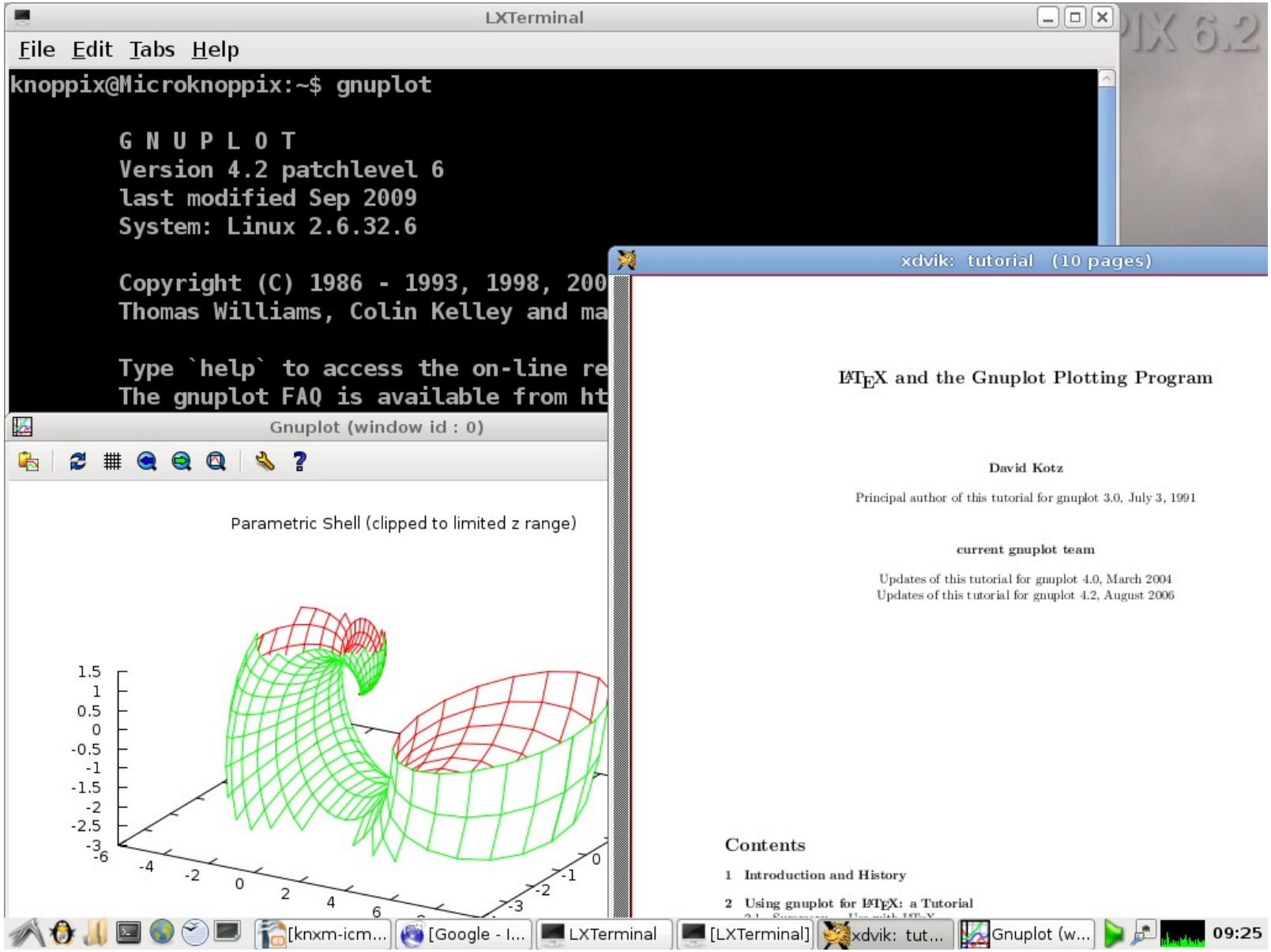
Geomview


Geomview - The Geometry Center
File Edit Inspect Space Motion Help
Geomview 1.9.4
Hide
Targets
External Modules
[g0] World
[g1] maxout.geomview
[c0] Camera
Animator
Clipboard
Clock
Draw Boundary
Nose
Main
Done
Target
World
Center
target
[B]Box Center
[r]otate
[t]rans
[s]cale
[f]ly
[z]oom
[o]rbit
STOP
[H]alt
[L]ook
[w]center
[W]reset
Camera (Euclidean view)
Appearance
[ax] Revert
[ao] Override
Hide
Color:
Show:
Shading
[Cf]
[Ce]
[Cn]
[Cb]
[af] Faces
[ae] Edges
[an] Normals
[ab] BBoxes
[aV] Vects
[av] Facing Normals
[aC] Concave
[al] Shade Lines
[0as] Constar
[1as] Flat
[2as] Smooth
[3as] CSmoot
[at] Texture
[aq] Tx Quality
[aw] Line Width
[ah] Normal Length
[ad] Patch Dicing
Normalize
[0N] None
[1N] Individua
[2N] Sequence
[knxm-icm...
[xmaxima]
Camera (E...
Geomview...
Tools
Appearance
05:58

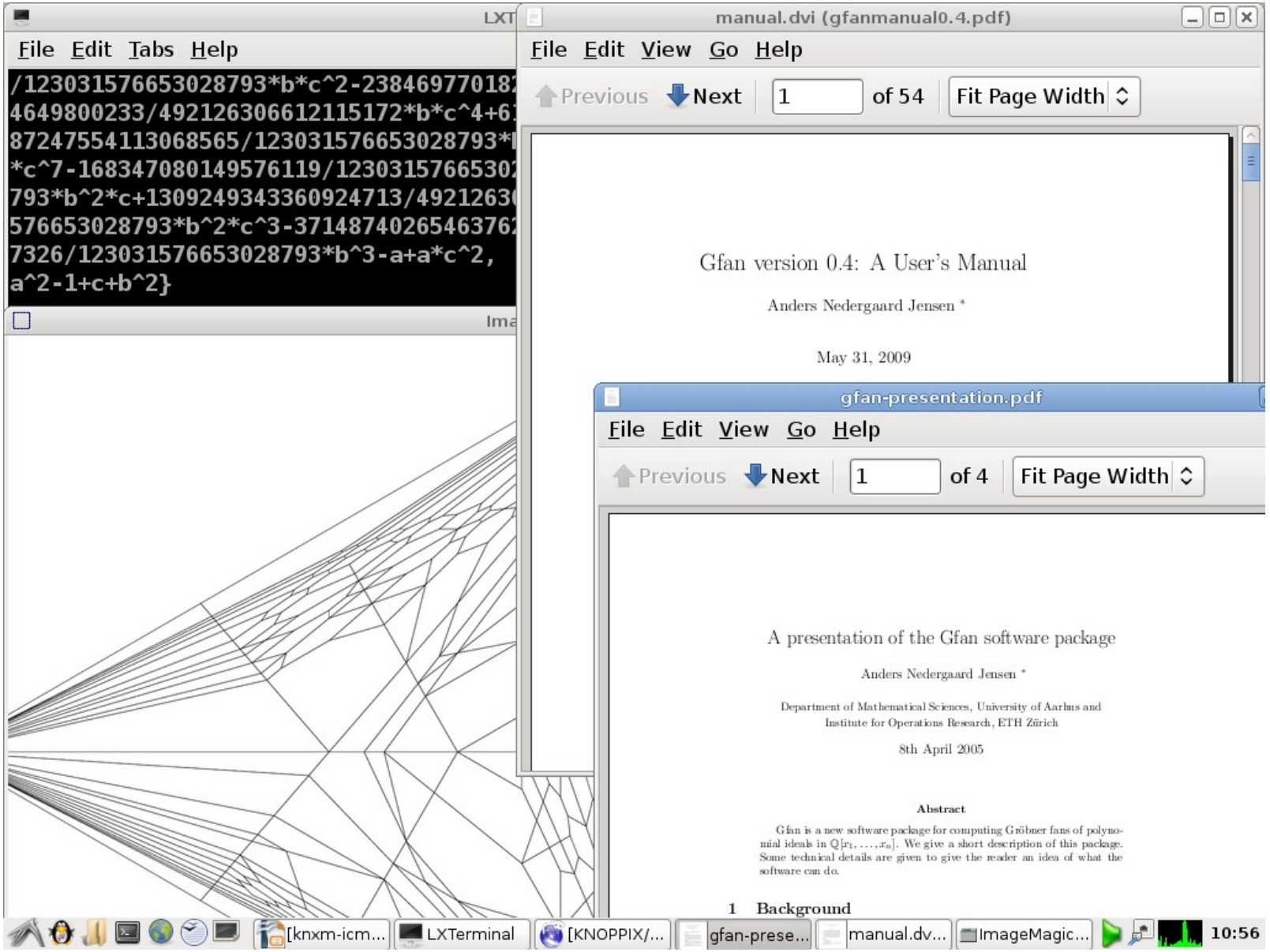
GiANT


GiANT
File Number Field View About
About GiANT
GiANT
0.9.3 Alpha
http://giantsystem.sourceforge.r
Graphical Algebra System
Copyright (c) 2005 Aneesh Karve. Co-designed by Sebastian Pauli. Special thanks to the German Academic Exchange (www.daad.org) and the KANT Group at TU-Berlin (www.math.tu-berlin.de/~kant).
GiANT comes with ABSOLUTELY NO WARRANTY; for details see "NO WARRANTY" below. This is free software, and you are welcome to redistribute it under certain conditions; for details see "TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION" below.
[knxm-icm2010....
[xmaxima]
GiANT
05:59

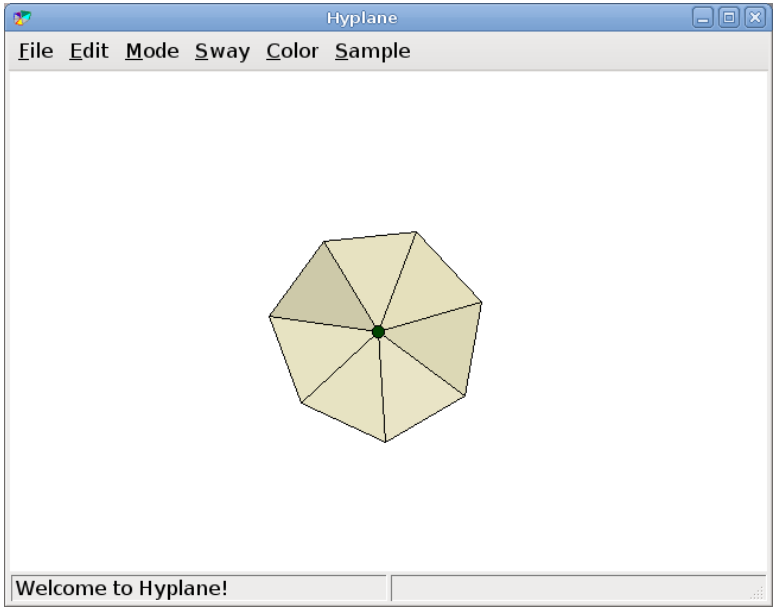
Gnuplot

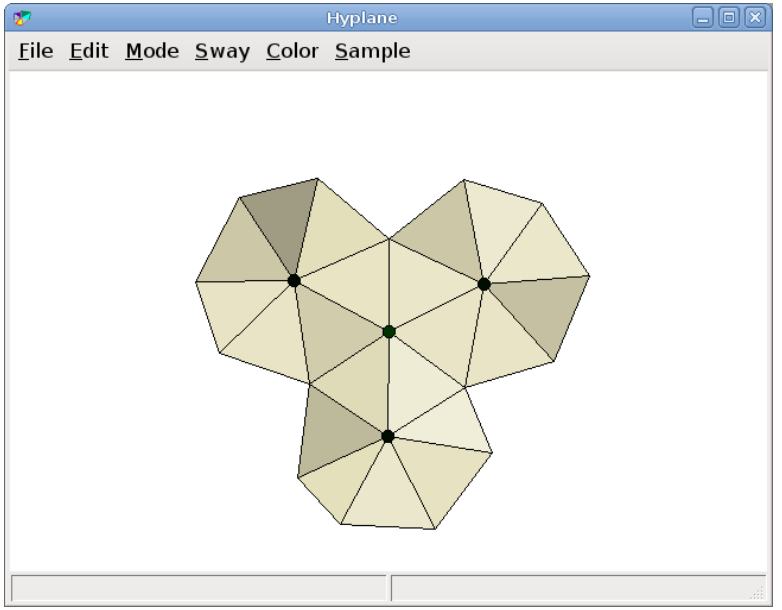

LXTerminal
File Edit Tabs Help
knoppix@Microknoppix:~$ gnuplot
G N U P L O T
Version 4.2 patchlevel 6
last modified Sep 2009
System: Linux 2.6.32.6
Copyright (C) 1986 - 1993, 1998, 200
Thomas Williams, Colin Kelley and ma
Type `help` to access the on-line re
The gnuplot FAQ is available from ht
Gnuplot (window id : 0)
Parametric Shell (clipped to limited z range)
xdvik: tutorial (10 pages)
LaTeX and the Gnuplot Plotting Program
David Kotz
Principal author of this tutorial for gnuplot 3.0, July 3, 1991
current gnuplot team
Updates of this tutorial for gnuplot 4.0, March 2004
Updates of this tutorial for gnuplot 4.2, August 2006
Contents
1 Introduction and History
2 Using gnuplot for LaTeX: a Tutorial
[knxm-icm...
[Google - I...
LXTerminal
[LXTerminal]
xdvik: tut...
Gnuplot (w...
09:25

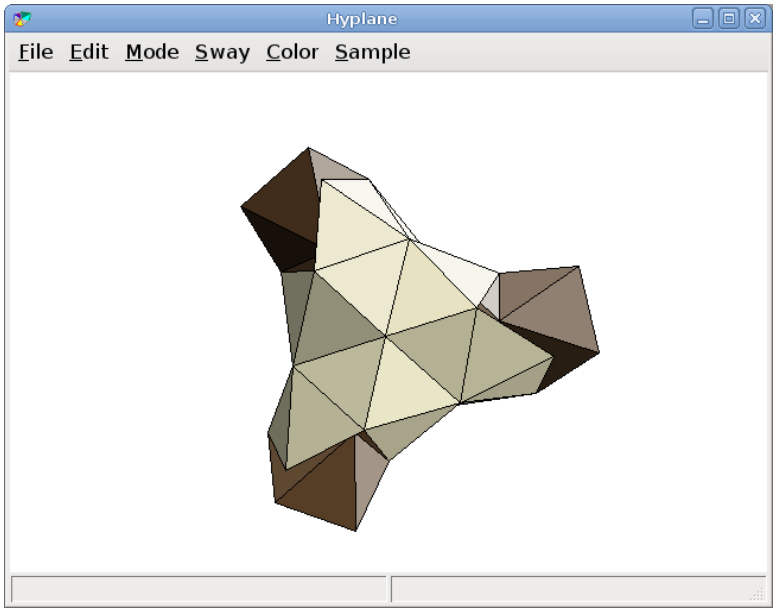
gfan

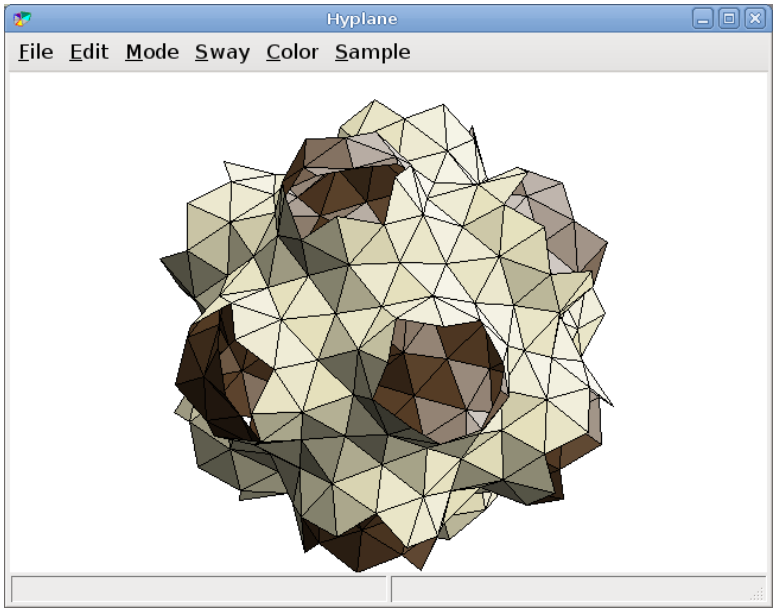

File Edit Tabs Help
/12303157665302879 3*b*c^2-2384697701 8
4649800233/492126306612115172*b*c^4+6
87247554113068565/12303157665302879 3*
*c^7-168347080149576119/12303157665302
793*b^2*c+1309249343360924713/4921263
576653028793*b^2*c^3-37148740265463762
7326/12303157665302879 3*b^3-a+a*c^2,
a^2-1+c+b^2}
manual.dvi (gfanmanual0.4.pdf)
File Edit View Go Help
Previous Next 1 of 54 Fit Page Width
Gfan version 0.4: A User's Manual
Anders Nedergaard Jensen *
May 31, 2009
gfan-presentation.pdf
File Edit View Go Help
Previous Next 1 of 4 Fit Page Width
A presentation of the Gfan software package
Anders Nedergaard Jensen *
Department of Mathematical Sciences, University of Aarhus and
Institute for Operations Research, ETH Zürich
8th April 2005
Abstract
Gfan is a new software package for computing Gröbner fans of polynomial ideals in Q[x1, . . . , xn]. We give a short description of this package. Some technical details are given to give the reader an idea of what the software can do.
1 Background
[knxm-icm...
LXTerminal
[KNOPPIX/...
gfan-prese...
manual.dv...
ImageMagic...
10:56

Hyplane

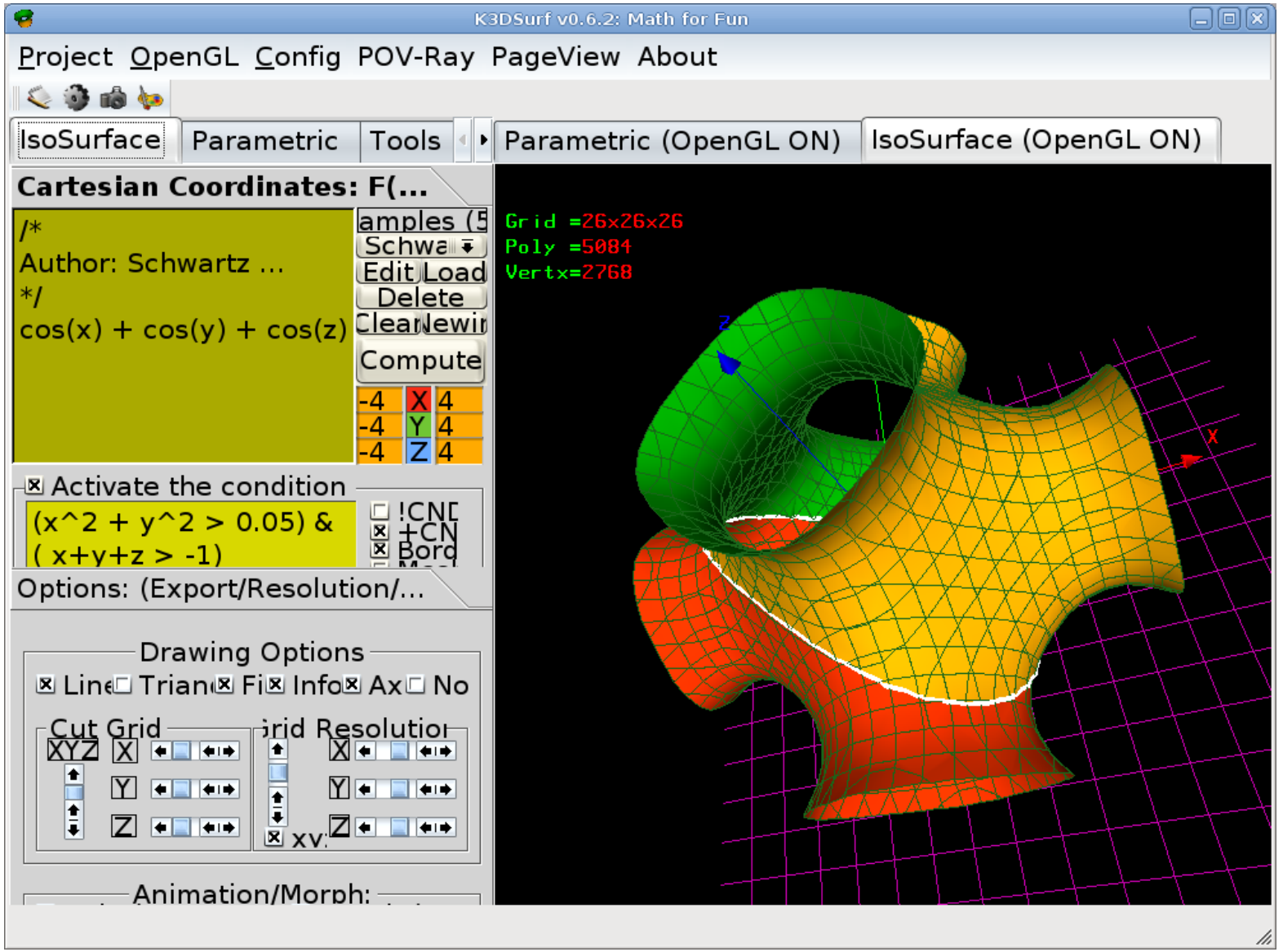

Hyplane
File Edit Mode Sway Color Sample
Welcome to Hyplane!


Hyplane
File Edit Mode Sway Color Sample

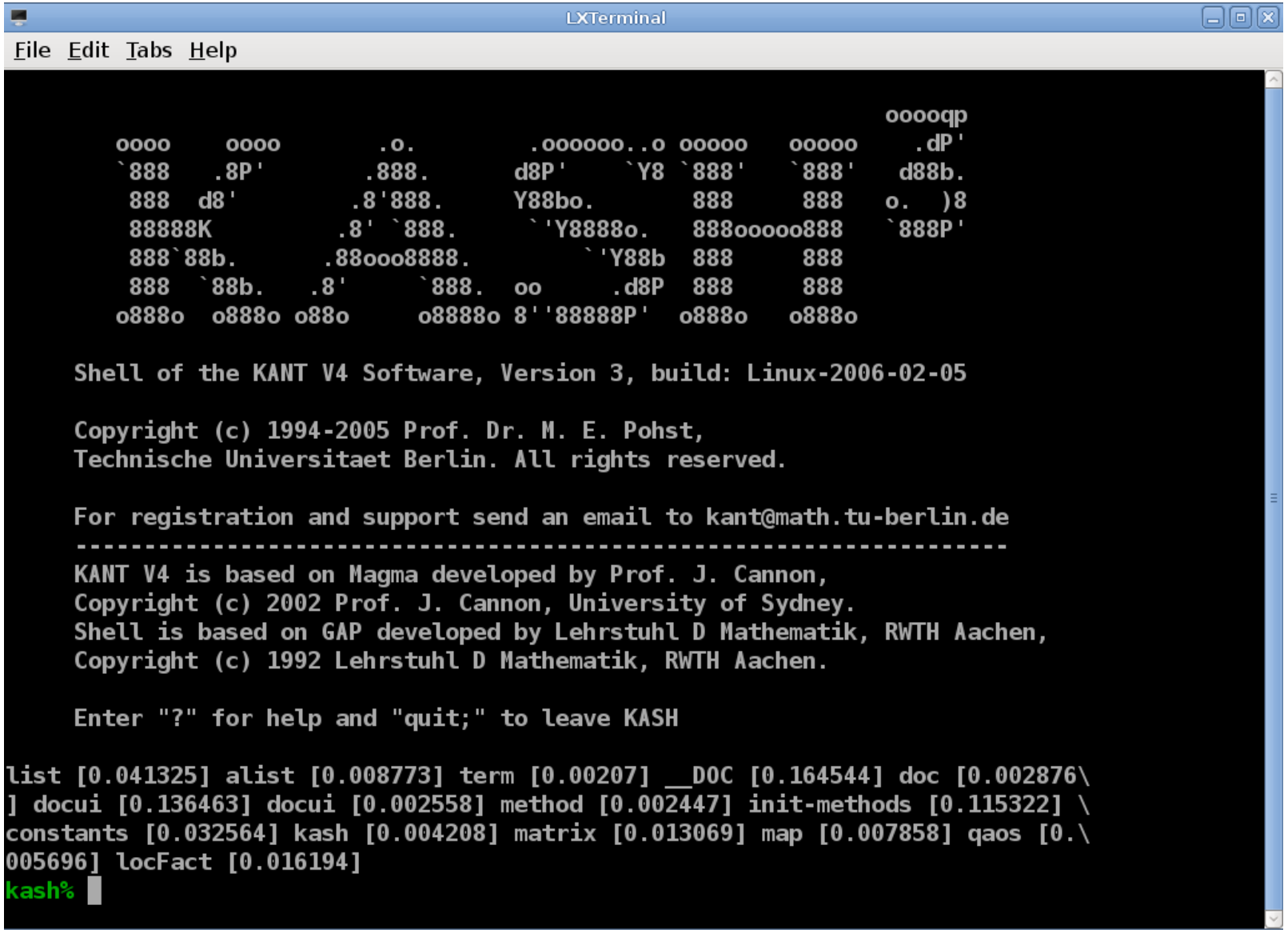

Hyplane
File Edit Mode Sway Color Sample


Hyplane
File Edit Mode Sway Color Sample

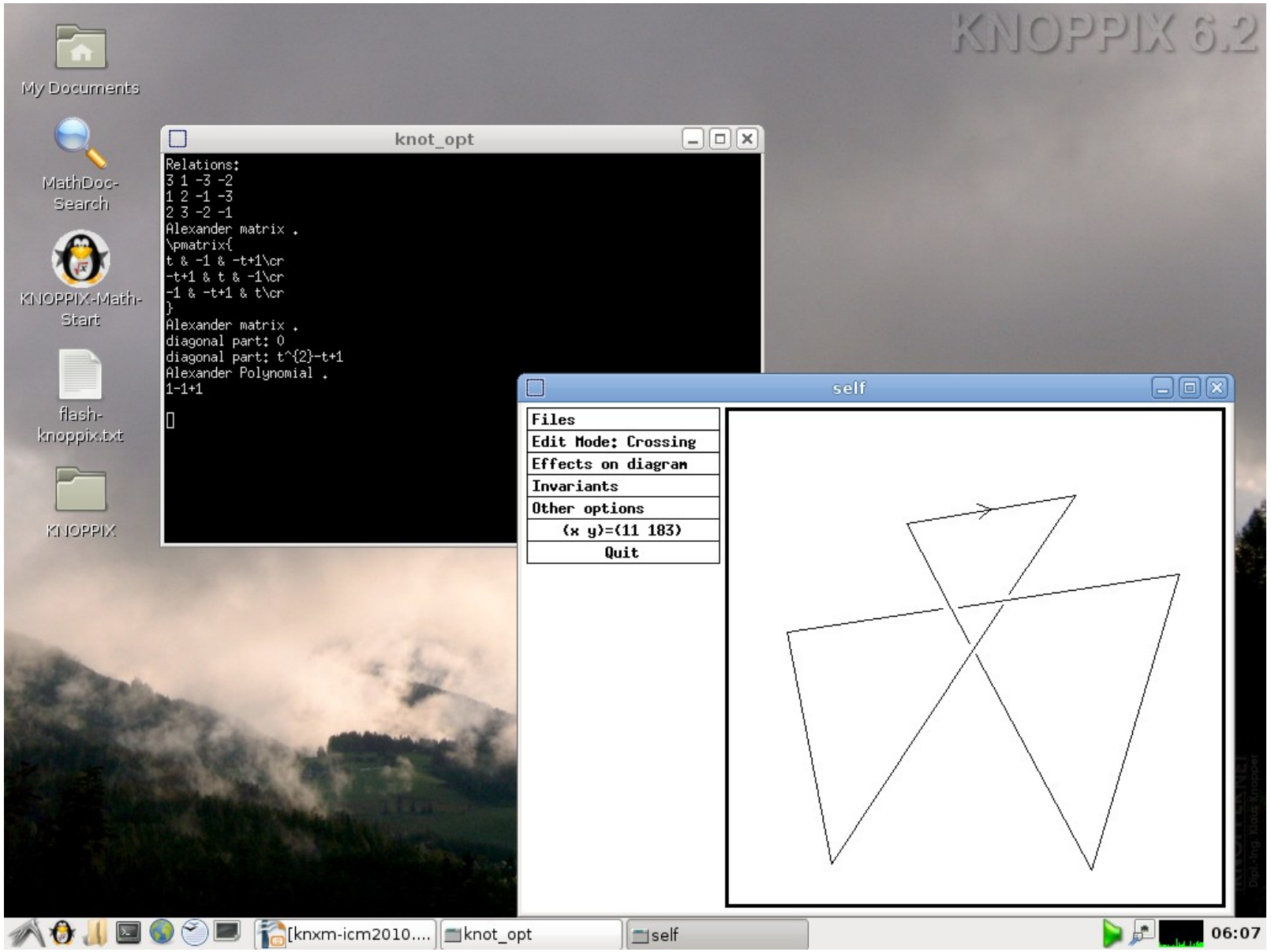
K3DSurf


K3DSurf v0.6.2: Math for Fun
Project OpenGL Config POV-Ray PageView About
IsoSurface
Parametric
Tools
Parametric (OpenGL ON)
IsoSurface (OpenGL ON)
Cartesian Coordinates: F(...
/*
Author: Schwartz ...
*/
cos(x) + cos(y) + cos(z)
Compute
-4 X 4
-4 Y 4
-4 Z 4
Activate the condition
(x^2 + y^2 > 0.05) &
(x+y+z > -1)
Options: (Export/Resolution/...
Drawing Options
Cut Grid
Grid =26x26x26
Poly =5084
Vertx=2768

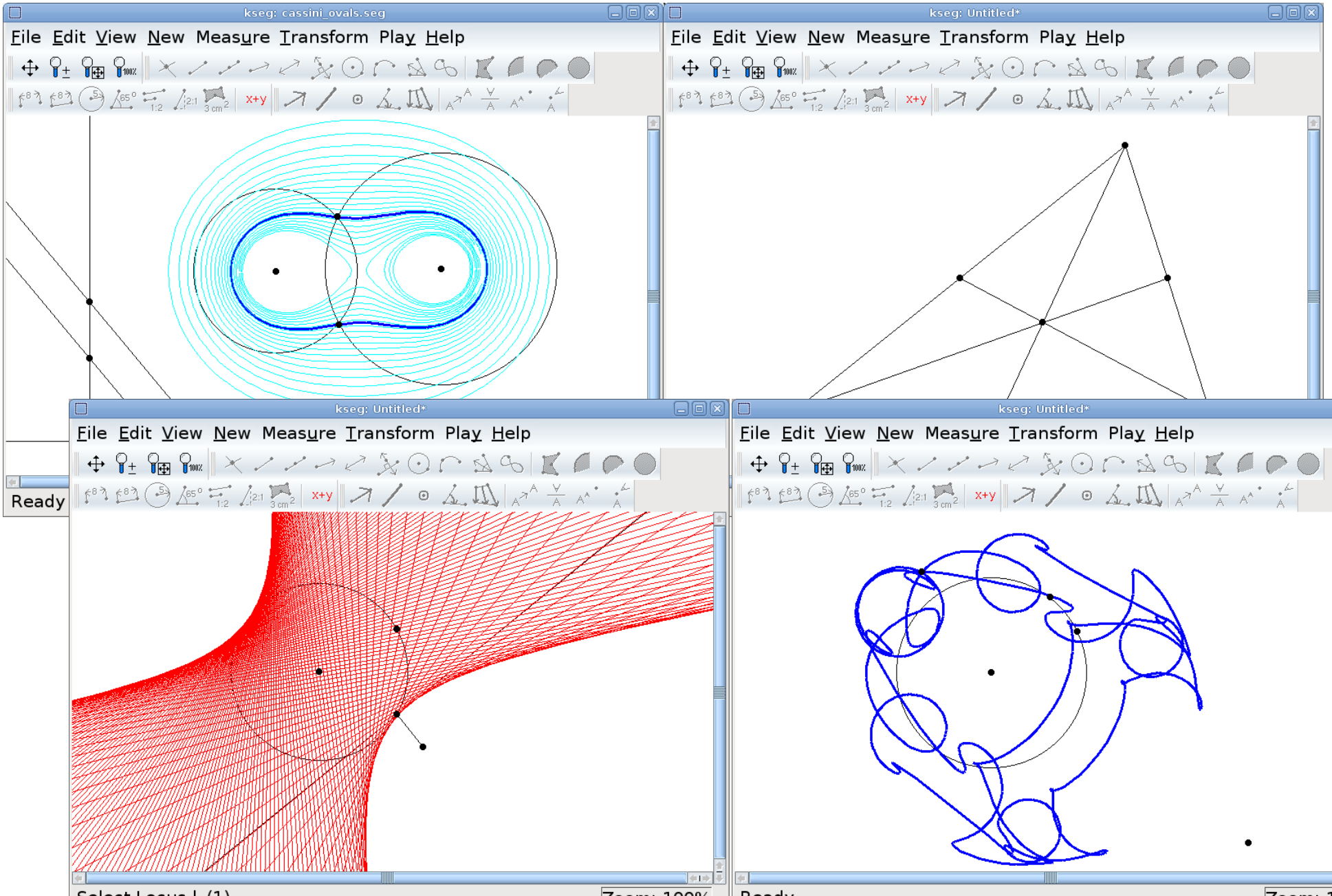
KASH/KANT


LXTerminal
File Edit Tabs Help
Shell of the KANT V4 Software, Version 3, build: Linux-2006-02-05
Copyright (c) 1994-2005 Prof. Dr. M. E. Pohst,
Technische Universitaet Berlin. All rights reserved.
For registration and support send an email to kant@math.tu-berlin.de
KANT V4 is based on Magma developed by Prof. J. Cannon,
Copyright (c) 2002 Prof. J. Cannon, University of Sydney.
Shell is based on GAP developed by Lehrstuhl D Mathematik, RWTH Aachen,
Copyright (c) 1992 Lehrstuhl D Mathematik, RWTH Aachen.
Enter "?" for help and "quit;" to leave KASH
list [0.041325] alist [0.008773] term [0.00207] __DOC [0.164544] doc [0.002876\
] docui [0.136463] docui [0.002558] method [0.002447] init-methods [0.115322] \
constants [0.032564] kash [0.004208] matrix [0.013069] map [0.007858] qaos [0.\
005696] locFact [0.016194]
kash%

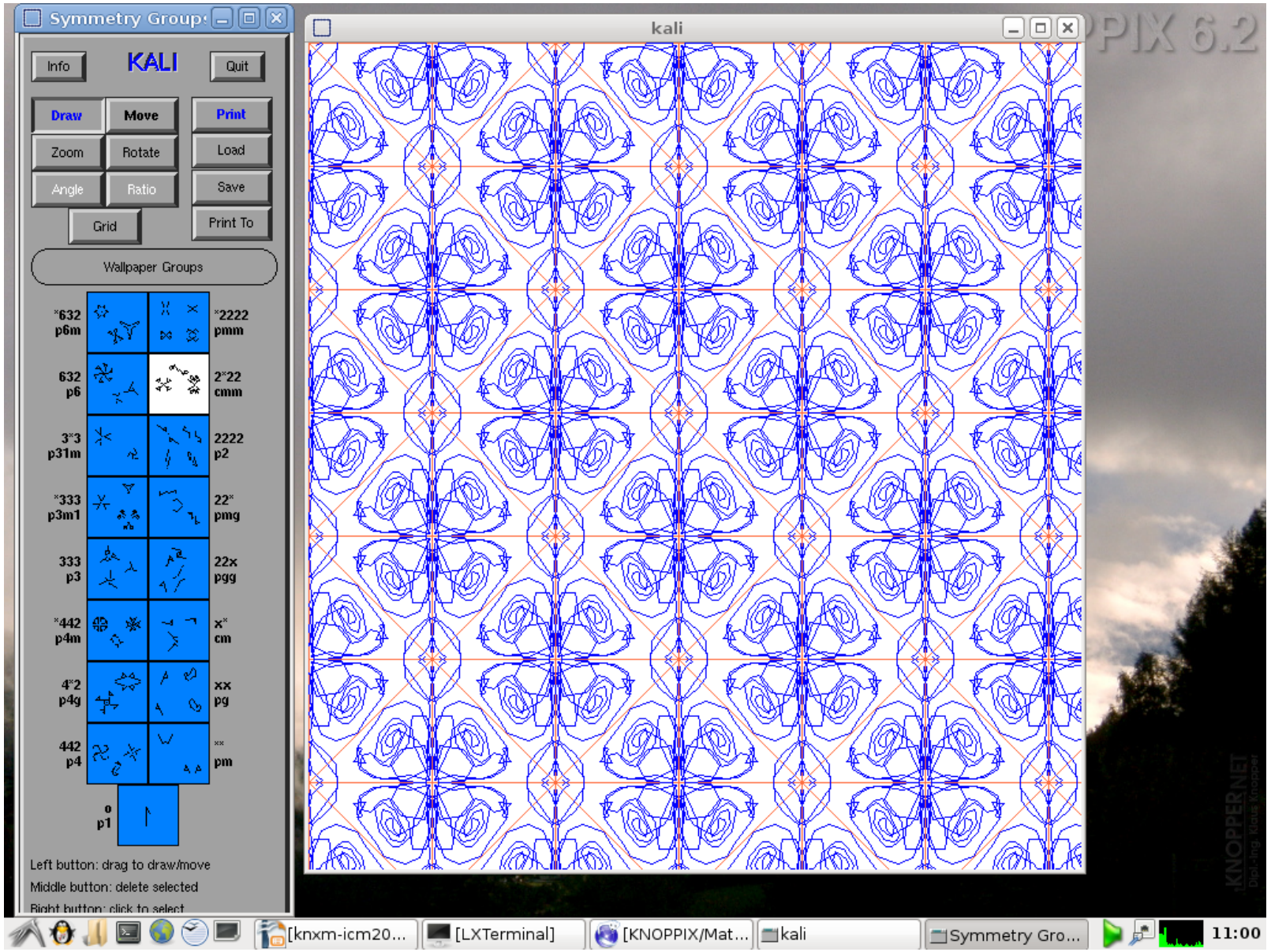
KNOT


KNOPPIX 6.2
My Documents
MathDoc-Search
KNOPPIX-Math-Start
flash-knoppix.txt
KNOPPIX
knot_opt
Relations:
3 1 -3 -2
1 2 -1 -3
2 3 -2 -1
Alexander matrix .
\pmatrix{
t & -1 & -t+1\cr
-t+1 & t & -1\cr
-1 & -t+1 & t\cr
}
Alexander matrix .
diagonal part: 0
diagonal part: t^{2}-t+1
Alexander Polynomial .
1-1+1
self
Files
Edit Mode: Crossing
Effects on diagram
Invariants
Other options
(x y)=(11 183)
Quit
[knxm-icm2010....
knot_opt
self
06:07

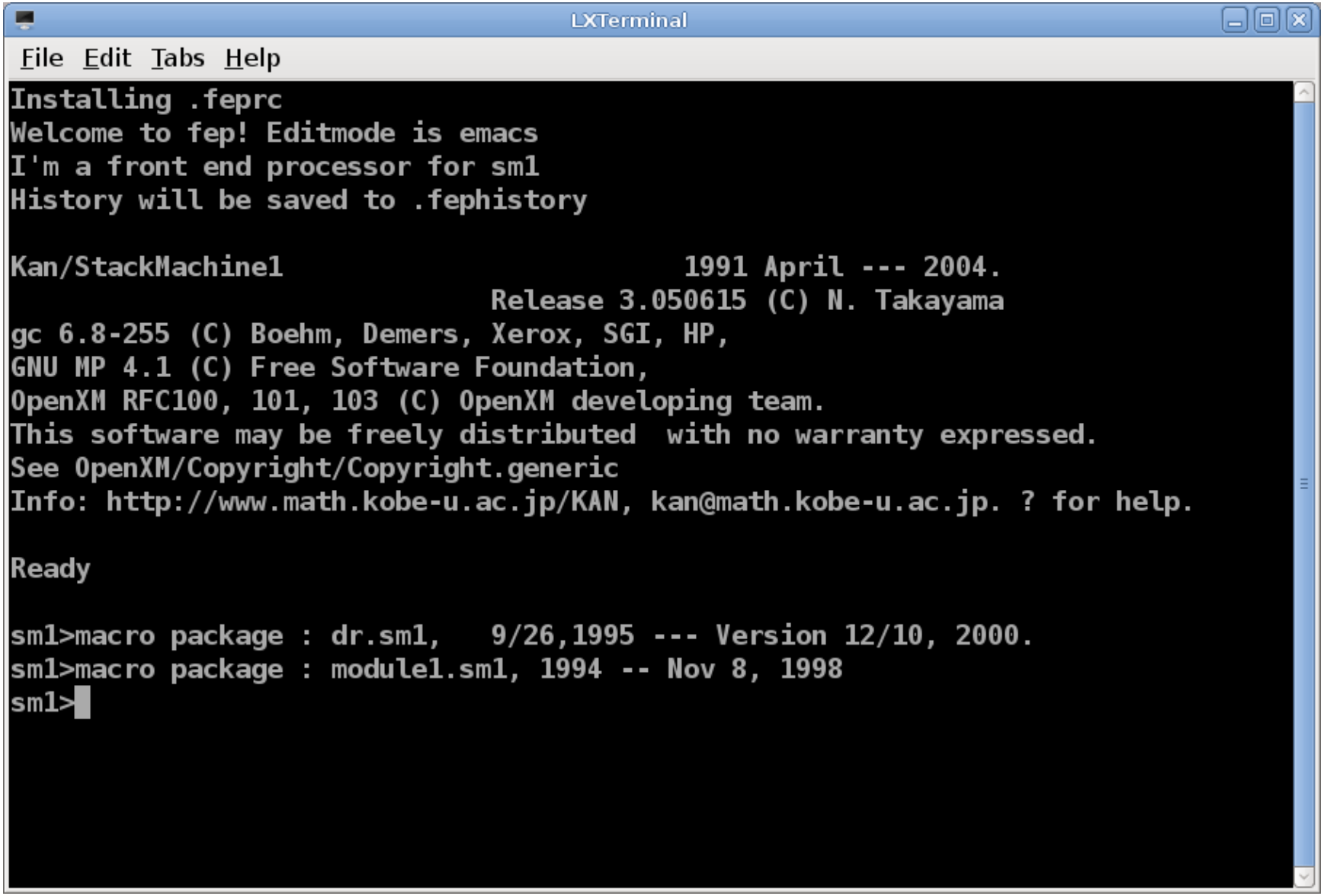
KSEG


kseg: cassini_ovals.seg
File Edit View New Measure Transform Play Help
kseg: Untitled*
File Edit View New Measure Transform Play Help
kseg: Untitled*
File Edit View New Measure Transform Play Help
Ready
kseg: Untitled*
File Edit View New Measure Transform Play Help

Kali


Symmetry Group
Info
KALI
Quit
Draw
Move
Print
Zoom
Rotate
Load
Angle
Ratio
Save
Grid
Print To
Wallpaper Groups
*632 p6m
*2222 pmm
632 p6
2*22 cmm
3*3 p31m
2222 p2
*333 p3m1
22* pmg
333 p3
22x pgg
*442 p4m
x* cm
4*2 p4g
xx pg
442 p4
** pm
o p1
Left button: drag to draw/move
Middle button: delete selected
Right button: click to select
kali
[knxm-icm20...
[LXTerminal]
[KNOPPIX/Mat...
kali
Symmetry Gro...
11:00

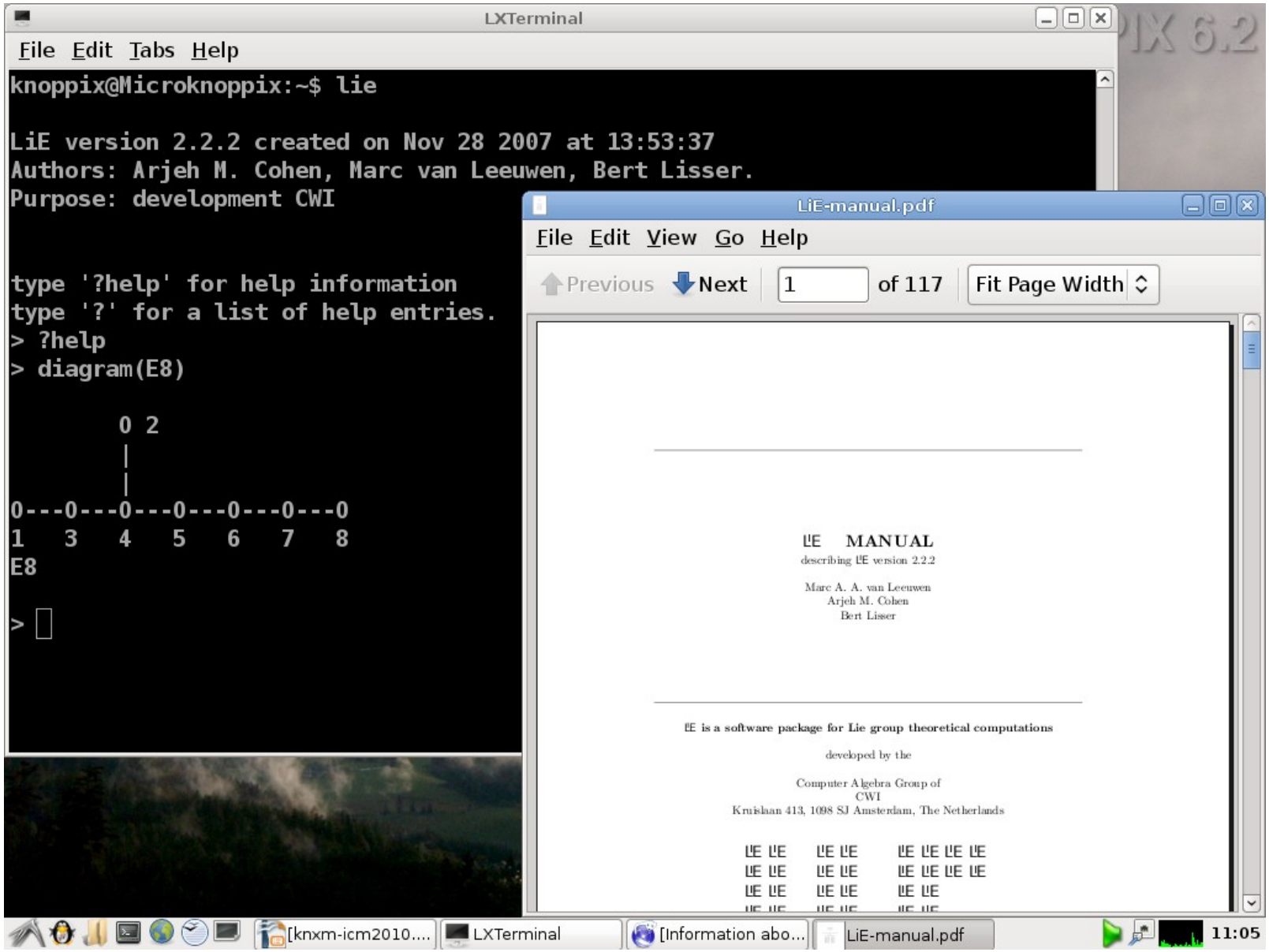
Kan/sm1


LXTerminal
File Edit Tabs Help
Installing .feprc
Welcome to fep! Editmode is emacs
I'm a front end processor for sm1
History will be saved to .fephistory
Kan/StackMachine1 1991 April --- 2004.
Release 3.050615 (C) N. Takayama
gc 6.8-255 (C) Boehm, Demers, Xerox, SGI, HP,
GNU MP 4.1 (C) Free Software Foundation,
OpenXM RFC100, 101, 103 (C) OpenXM developing team.
This software may be freely distributed with no warranty expressed.
See OpenXM/Copyright/Copyright.generic
Info: http://www.math.kobe-u.ac.jp/KAN, kan@math.kobe-u.ac.jp. ? for help.
Ready
sm1>macro package : dr.sm1, 9/26,1995 --- Version 12/10, 2000.
sm1>macro package : module1.sm1, 1994 -- Nov 8, 1998
sm1>

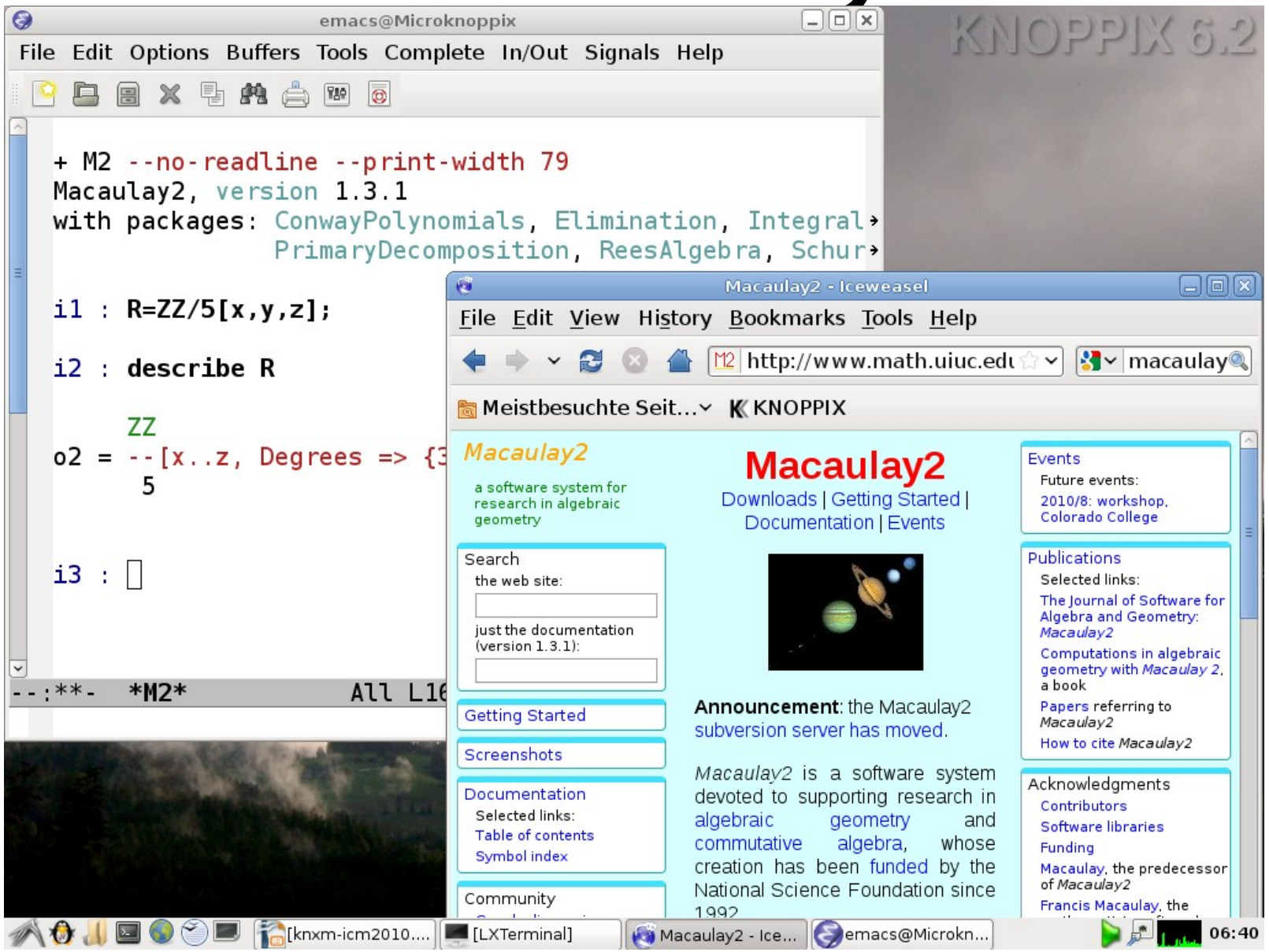
Kig

Kig
File Edit View Objects Types Tools Settings Help
New Open Save Save As Print Undo Redo Delete Objects Cancel Construction New Macro Zoom In
Tip of the Day – Kig
Did you know...?
Kig can extends its object set using external macros. You can find some interesting macros on the Kig website: http://edu.kde.org/kig.
Show tips on startup
Previous
Next
Close

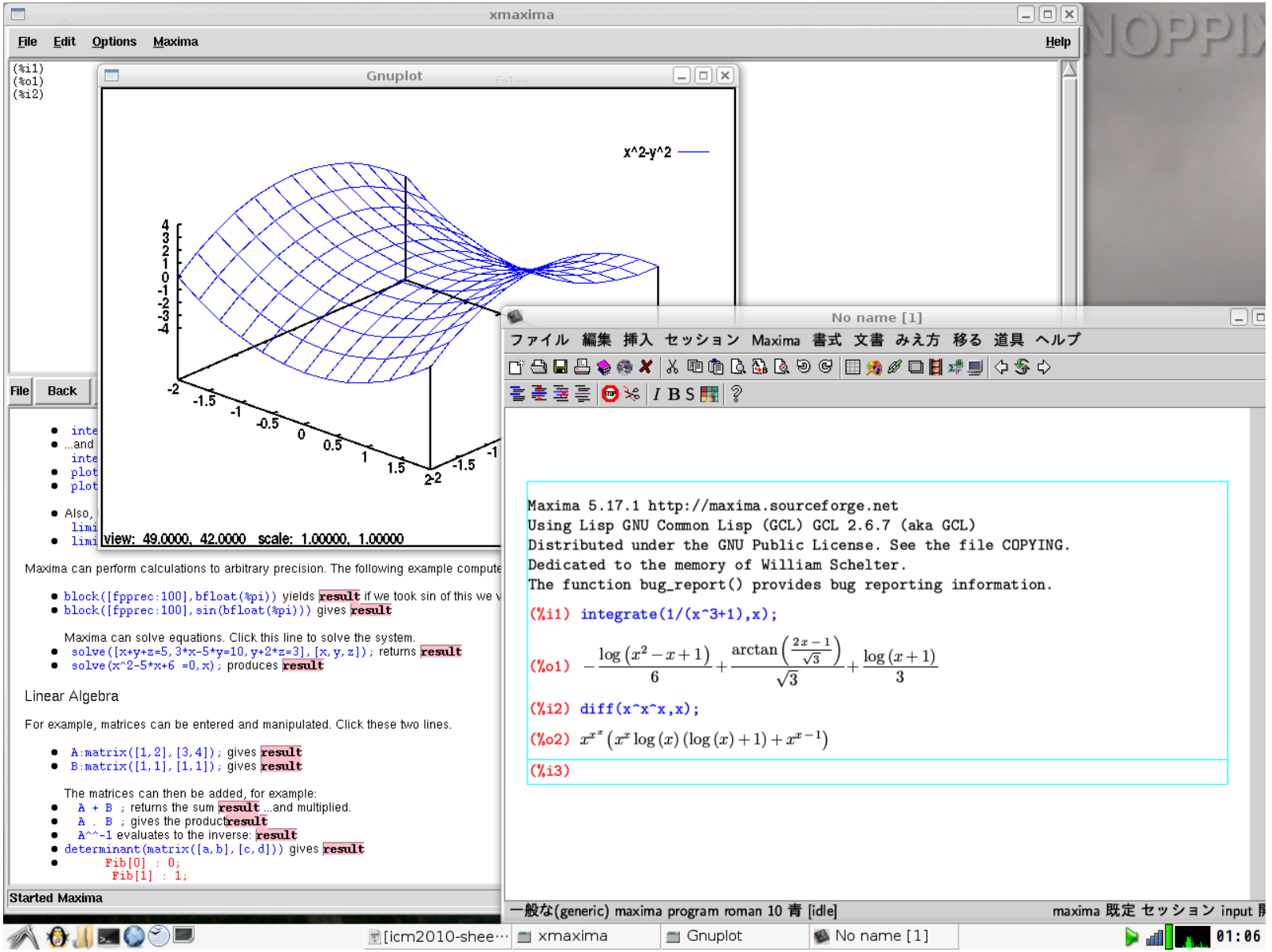
LiE


LXTerminal
File Edit Tabs Help
knoppix@Microknoppix:~$ lie
LiE version 2.2.2 created on Nov 28 2007 at 13:53:37
Authors: Arjeh M. Cohen, Marc van Leeuwen, Bert Lisser.
Purpose: development CWI
type '?help' for help information
type '?' for a list of help entries.
> ?help
> diagram(E8)
0 2
0---0---0---0---0---0---0
1 3 4 5 6 7 8
E8
>
LiE-manual.pdf
File Edit View Go Help
Previous Next 1 of 117 Fit Page Width
LiE MANUAL
describing LiE version 2.2.2
Marc A. A. van Leeuwen
Arjeh M. Cohen
Bert Lisser
LiE is a software package for Lie group theoretical computations
developed by the
Computer Algebra Group of
CWI
Kruislaan 413, 1098 SJ Amsterdam, The Netherlands
[knxm-icm2010....
LXTerminal
[Information abo...
LiE-manual.pdf
11:05

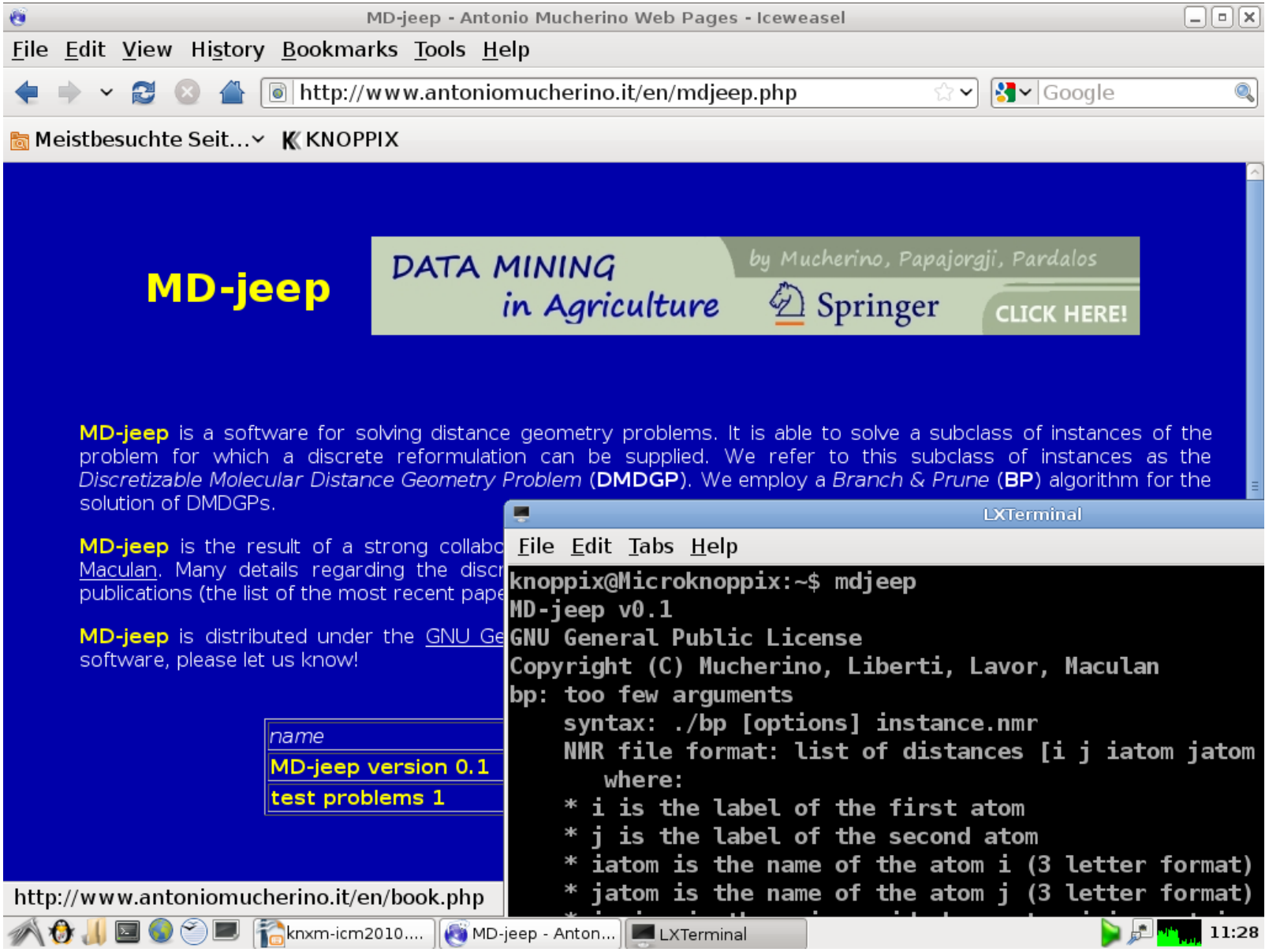
Macaulay2


emacs@Microknoppix
File Edit Options Buffers Tools Complete In/Out Signals Help
+ M2 --no-readline --print-width 79
Macaulay2, version 1.3.1
with packages: ConwayPolynomials, Elimination, Integral
PrimaryDecomposition, ReesAlgebra, Schur
i1 : R=ZZ/5[x,y,z];
i2 : describe R
ZZ
o2 = --[x..z, Degrees => {3
5
i3 :
--:**- *M2* All L16
KNOPPIX 6.2
Macaulay2 - Iceweasel
File Edit View History Bookmarks Tools Help
http://www.math.uiuc.edu
macaulay
Meistbesuchte Seit...
KNOPPIX
Macaulay2
a software system for research in algebraic geometry
Search
the web site:
just the documentation (version 1.3.1):
Getting Started
Screenshots
Documentation
Selected links:
Table of contents
Symbol index
Community
Macaulay2
Downloads | Getting Started | Documentation | Events
Announcement: the Macaulay2 subversion server has moved.
Macaulay2 is a software system devoted to supporting research in algebraic geometry and commutative algebra, whose creation has been funded by the National Science Foundation since 1992
Events
Future events:
2010/8: workshop, Colorado College
Publications
Selected links:
The Journal of Software for Algebra and Geometry: Macaulay2
Computations in algebraic geometry with Macaulay 2, a book
Papers referring to Macaulay2
How to cite Macaulay2
Acknowledgments
Contributors
Software libraries
Funding
Macaulay, the predecessor of Macaulay2
Francis Macaulay, the
[knxm-icm2010....
[LXTerminal]
Macaulay2 - Ice...
emacs@Microkn...
06:40

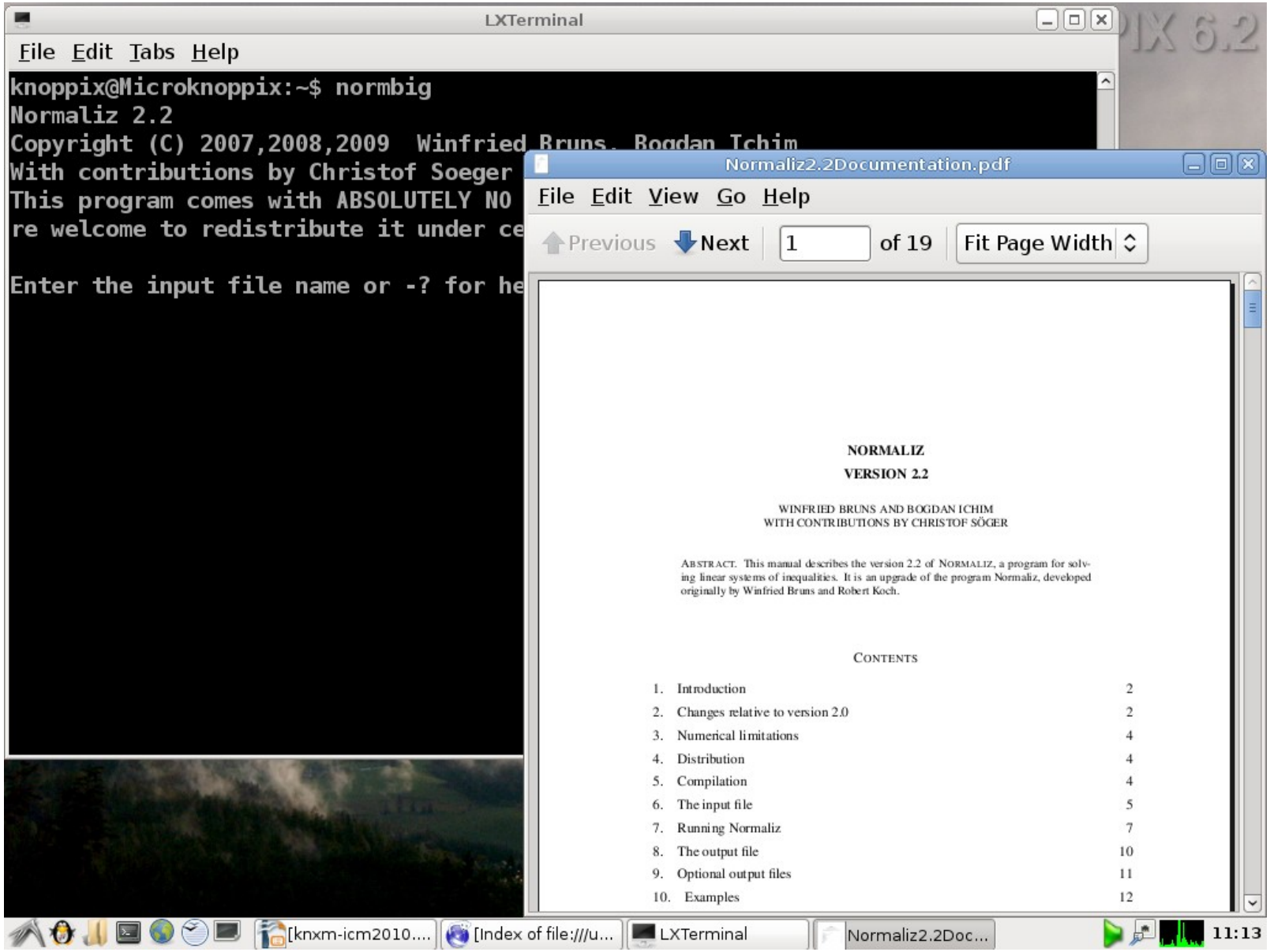
Maxima


xmaxima
File Edit Options Maxima Help
Gnuplot
x^2-y^2
view: 49.0000, 42.0000 scale: 1.00000, 1.00000
File Back
Maxima can perform calculations to arbitrary precision. The following example compute
Linear Algebra
For example, matrices can be entered and manipulated. Click these two lines.
Started Maxima
No name [1]
ファイル 編集 挿入 セッション Maxima 書式 文書 みえ方 移る 道具 ヘルプ
Maxima 5.17.1 http://maxima.sourceforge.net
Using Lisp GNU Common Lisp (GCL) GCL 2.6.7 (aka GCL)
Distributed under the GNU Public License. See the file COPYING.
Dedicated to the memory of William Schelter.
The function bug_report() provides bug reporting information.
(%i1) integrate(1/(x^3+1),x);
(%o1) $-\frac{\log\left(x^2-x+1\right)}{6}+\frac{\arctan\left(\frac{2x-1}{\sqrt{3}}\right)}{\sqrt{3}}+\frac{\log\left(x+1\right)}{3}$
(%i2) diff(x^x^x,x);
(%o2) $x^{x^x}\left(x^x\log\left(x\right)\left(\log\left(x\right)+1\right)+x^{x-1}\right)$
(%i3)
一般な(generic) maxima program roman 10 青 [idle]
maxima 既定 セッション input
[icm2010-shee… xmaxima Gnuplot No name [1]
01:06

MD-jeep


MD-jeep - Antonio Mucherino Web Pages - Iceweasel
File Edit View History Bookmarks Tools Help
http://www.antoniomucherino.it/en/mdjeep.php
Google
Meistbesuchte Seit...
KNOPPIX
MD-jeep
DATA MINING in Agriculture
by Mucherino, Papajorgji, Pardalos
Springer
CLICK HERE!
MD-jeep is a software for solving distance geometry problems. It is able to solve a subclass of instances of the problem for which a discrete reformulation can be supplied. We refer to this subclass of instances as the Discretizable Molecular Distance Geometry Problem (DMDGP). We employ a Branch & Prune (BP) algorithm for the solution of DMDGPs.
MD-jeep is the result of a strong collabo
Maculan. Many details regarding the discr
publications (the list of the most recent pape
MD-jeep is distributed under the GNU Ge
software, please let us know!
name
MD-jeep version 0.1
test problems 1
http://www.antoniomucherino.it/en/book.php
LXTerminal
File Edit Tabs Help
knoppix@Microknoppix:~$ mdjeep
MD-jeep v0.1
GNU General Public License
Copyright (C) Mucherino, Liberti, Lavor, Maculan
bp: too few arguments
syntax: ./bp [options] instance.nmr
NMR file format: list of distances [i j iatom jatom
where:
* i is the label of the first atom
* j is the label of the second atom
* iatom is the name of the atom i (3 letter format)
* jatom is the name of the atom j (3 letter format)
knxm-icm2010....
MD-jeep - Anton...
LXTerminal
11:28

Normaliz


LXTerminal
File Edit Tabs Help
knoppix@Microknoppix:~$ normbig
Normaliz 2.2
Copyright (C) 2007,2008,2009 Winfried Bruns, Bogdan Ichim
With contributions by Christof Soeger
This program comes with ABSOLUTELY NO
re welcome to redistribute it under ce
Enter the input file name or -? for he
Normaliz2.2Documentation.pdf
File Edit View Go Help
Previous Next 1 of 19 Fit Page Width
NORMALIZ
VERSION 2.2
WINFRIED BRUNS AND BOGDAN ICHIM
WITH CONTRIBUTIONS BY CHRISTOF SÖGER
ABSTRACT. This manual describes the version 2.2 of NORMALIZ, a program for solving linear systems of inequalities. It is an upgrade of the program Normaliz, developed originally by Winfried Bruns and Robert Koch.
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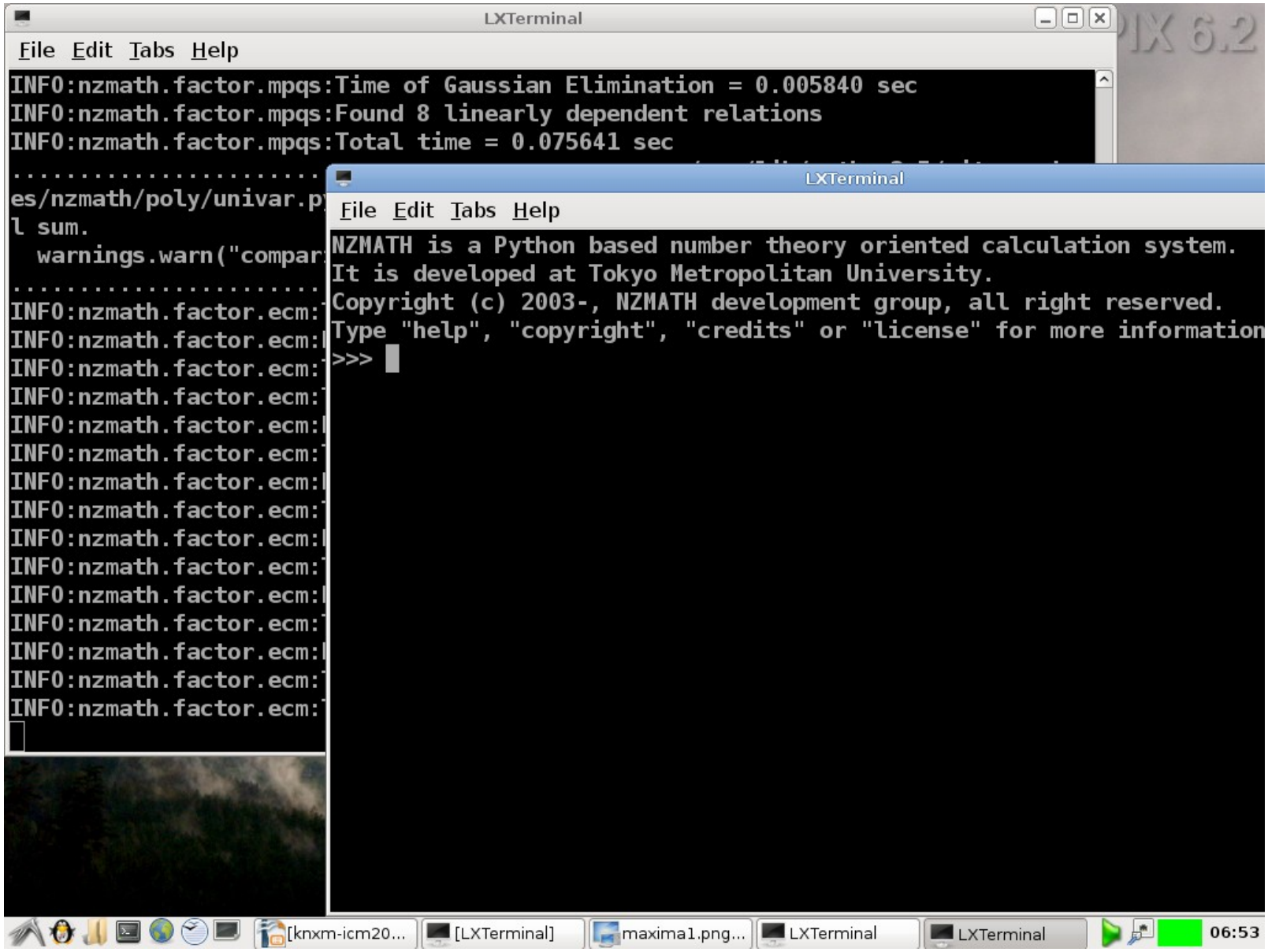
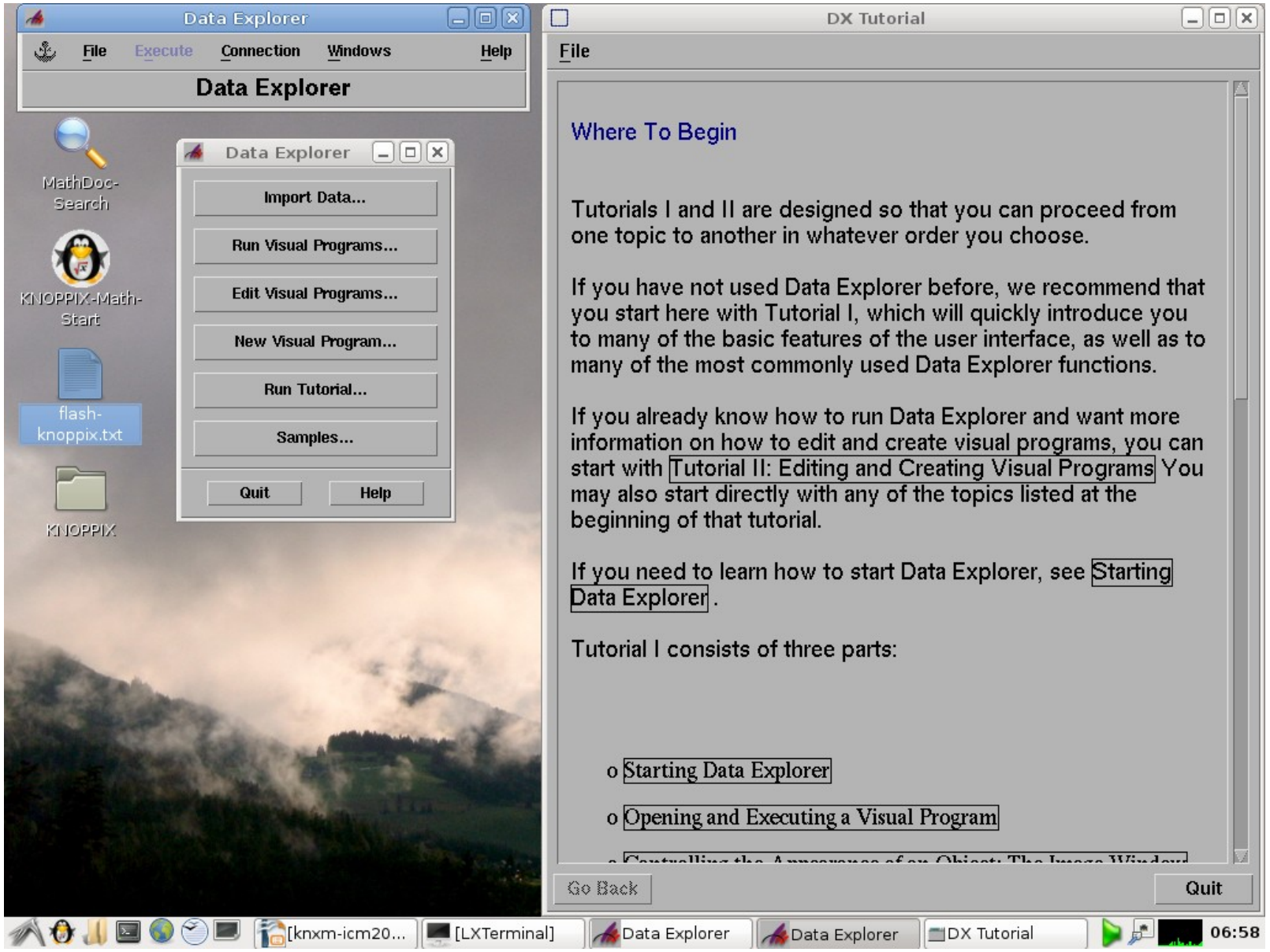
1. Introduction 2
2. Changes relative to version 2.0 2
3. Numerical limitations 4
4. Distribution 4
5. Compilation 4
6. The input file 5
7. Running Normaliz 7
8. The output file 10
9. Optional output files 11
10. Examples 12
[knxm-icm2010....
[Index of file:///u...
LXTerminal
Normaliz2.2Doc...
11:13

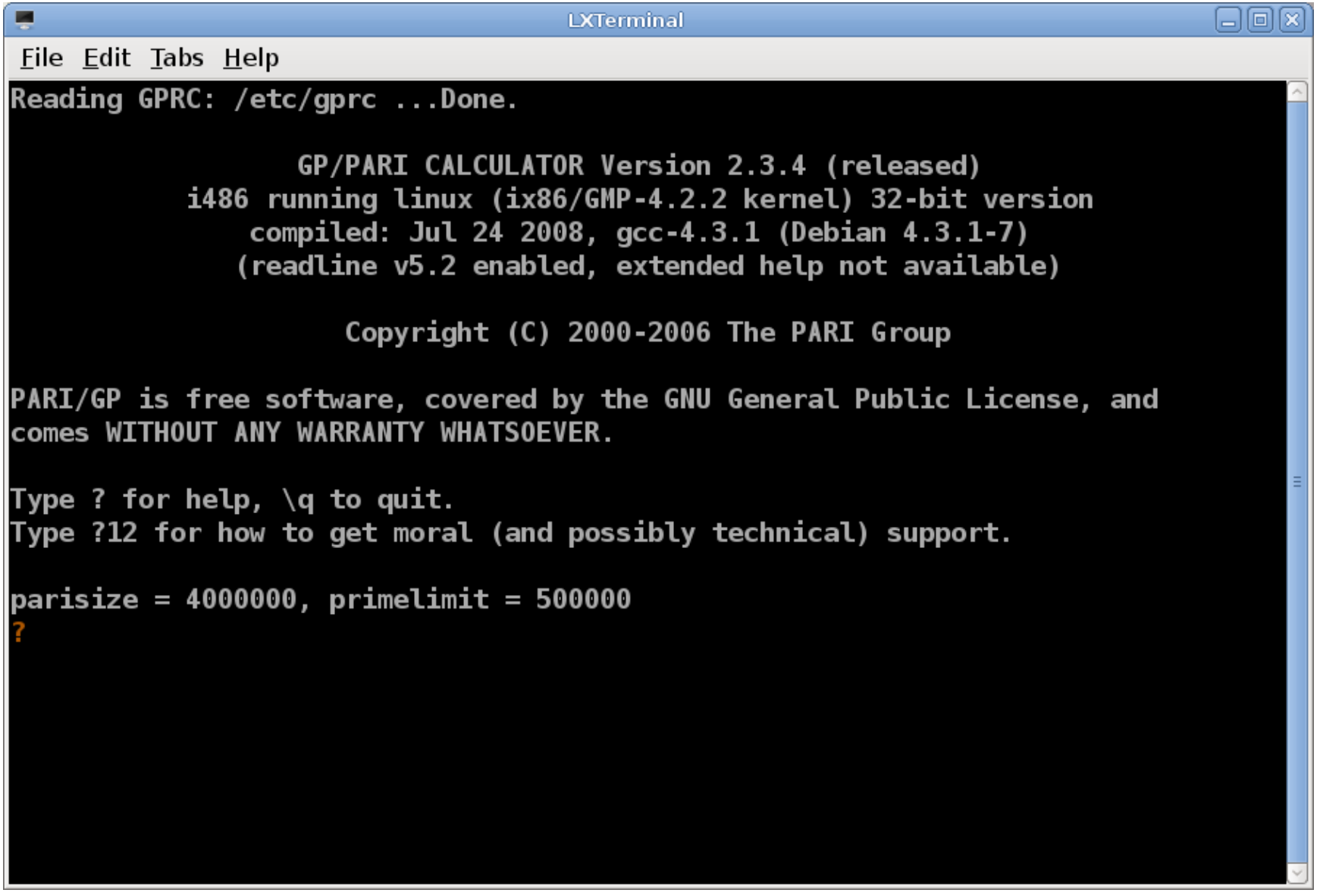
NZMATH


LXTerminal
File Edit Tabs Help
INFO:nzmath.factor.mpqs:Time of Gaussian Elimination = 0.005840 sec
INFO:nzmath.factor.mpqs:Found 8 linearly dependent relations
INFO:nzmath.factor.mpqs:Total time = 0.075641 sec
LXTerminal
File Edit Tabs Help
NZMATH is a Python based number theory oriented calculation system.
It is developed at Tokyo Metropolitan University.
Copyright (c) 2003-, NZMATH development group, all right reserved.
Type "help", "copyright", "credits" or "license" for more information
>>>
[knxm-icm20...
[LXTerminal]
maxima1.png...
LXTerminal
LXTerminal
06:53

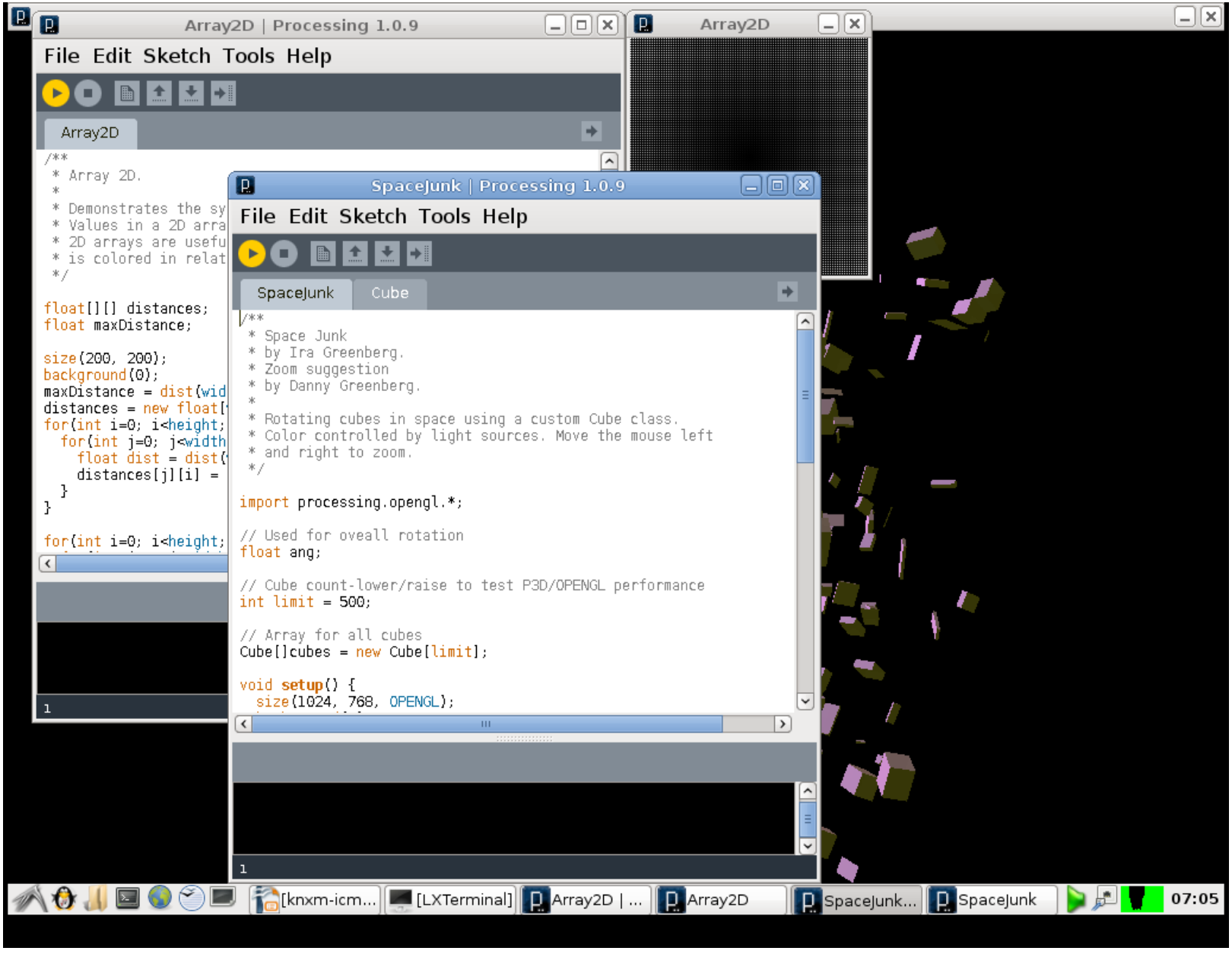
OpenDX Data Explorer



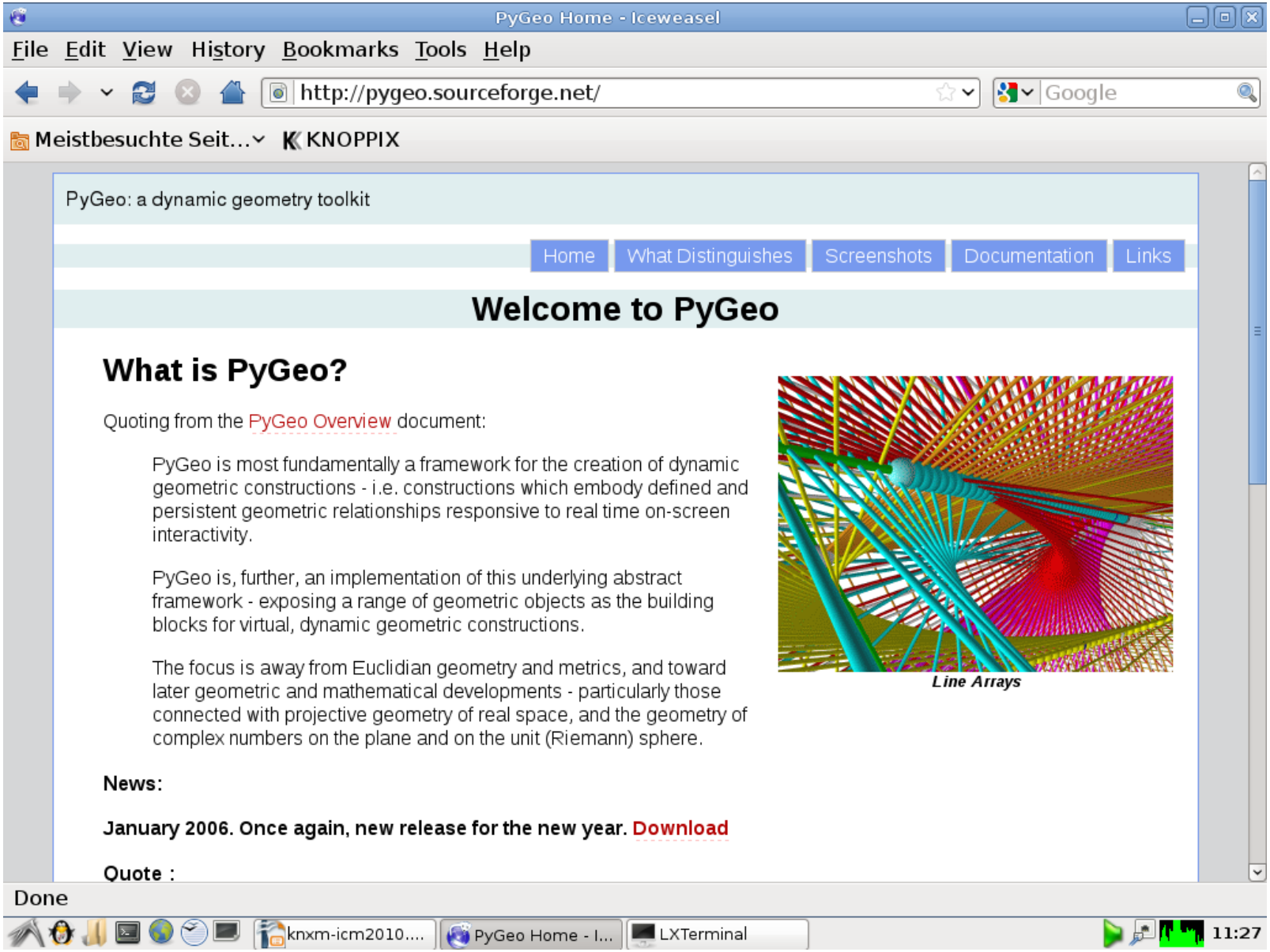
PARI/GP


LXTerminal
File Edit Tabs Help
Reading GPRC: /etc/gprc ...Done.
GP/PARI CALCULATOR Version 2.3.4 (released)
i486 running linux (ix86/GMP-4.2.2 kernel) 32-bit version
compiled: Jul 24 2008, gcc-4.3.1 (Debian 4.3.1-7)
(readline v5.2 enabled, extended help not available)
Copyright (C) 2000-2006 The PARI Group
PARI/GP is free software, covered by the GNU General Public License, and
comes WITHOUT ANY WARRANTY WHATSOEVER.
Type ? for help, \q to quit.
Type ?12 for how to get moral (and possibly technical) support.
parisize = 4000000, primelimit = 500000
?

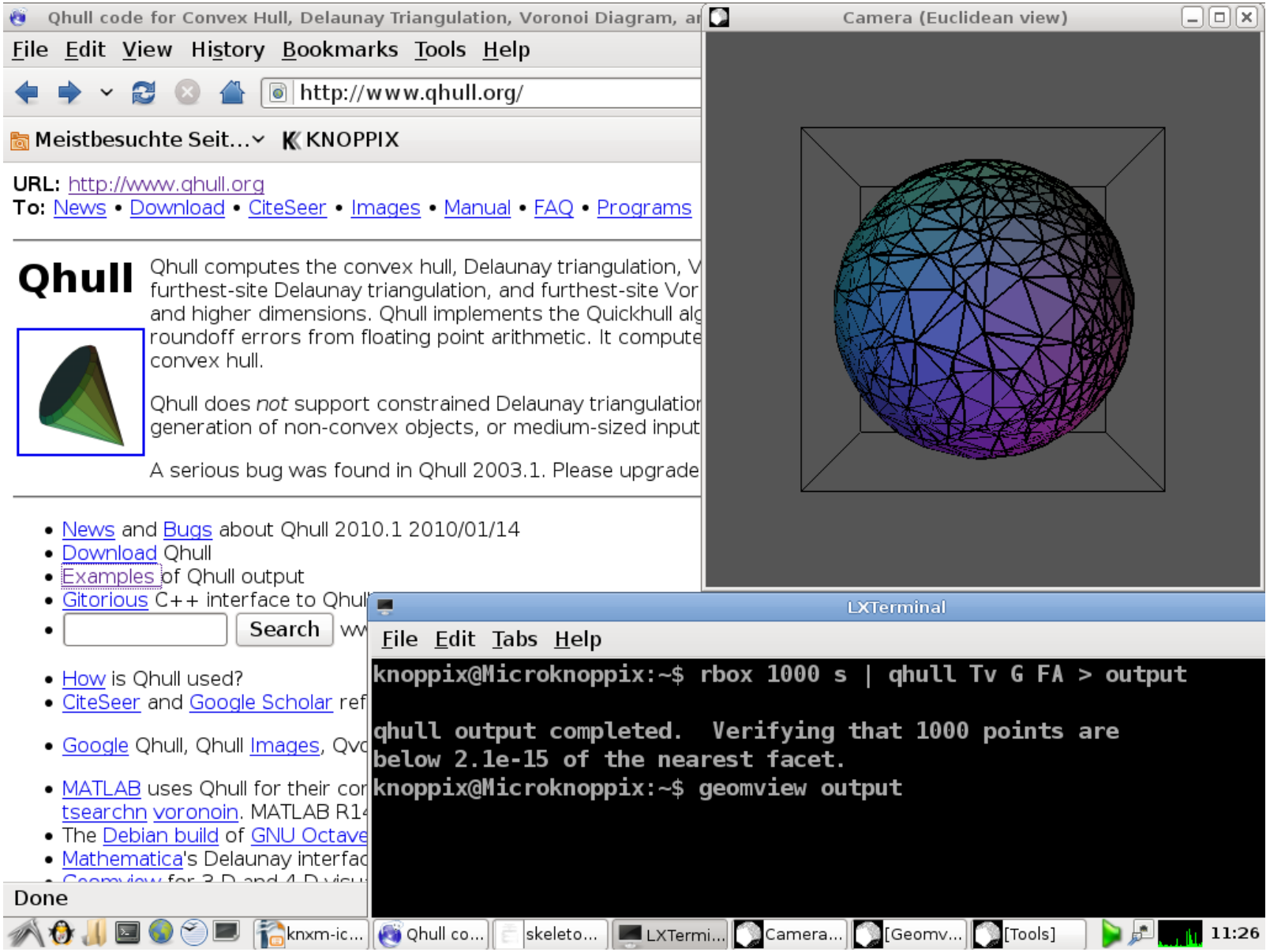
Processing


Array2D | Processing 1.0.9
File Edit Sketch Tools Help
Array2D
/**
* Array 2D.
*
* Demonstrates the sy
* Values in a 2D arra
* 2D arrays are usefu
* is colored in relat
*/
float[][] distances;
float maxDistance;
size(200, 200);
background(0);
maxDistance = dist(wid
distances = new float[
for(int i=0; i<height;
for(int j=0; j<width
float dist = dist(
distances[j][i] =
}
}
for(int i=0; i<height;
1
Array2D
SpaceJunk | Processing 1.0.9
File Edit Sketch Tools Help
SpaceJunk
Cube
/**
* Space Junk
* by Ira Greenberg.
* Zoom suggestion
* by Danny Greenberg.
*
* Rotating cubes in space using a custom Cube class.
* Color controlled by light sources. Move the mouse left
* and right to zoom.
*/
import processing.opengl.*;
// Used for oveall rotation
float ang;
// Cube count-lower/raise to test P3D/OPENGL performance
int limit = 500;
// Array for all cubes
Cube[]cubes = new Cube[limit];
void setup() {
size(1024, 768, OPENGL);
1
[knxm-icm...
[LXTerminal]
Array2D | ...
Array2D
SpaceJunk...
SpaceJunk
07:05

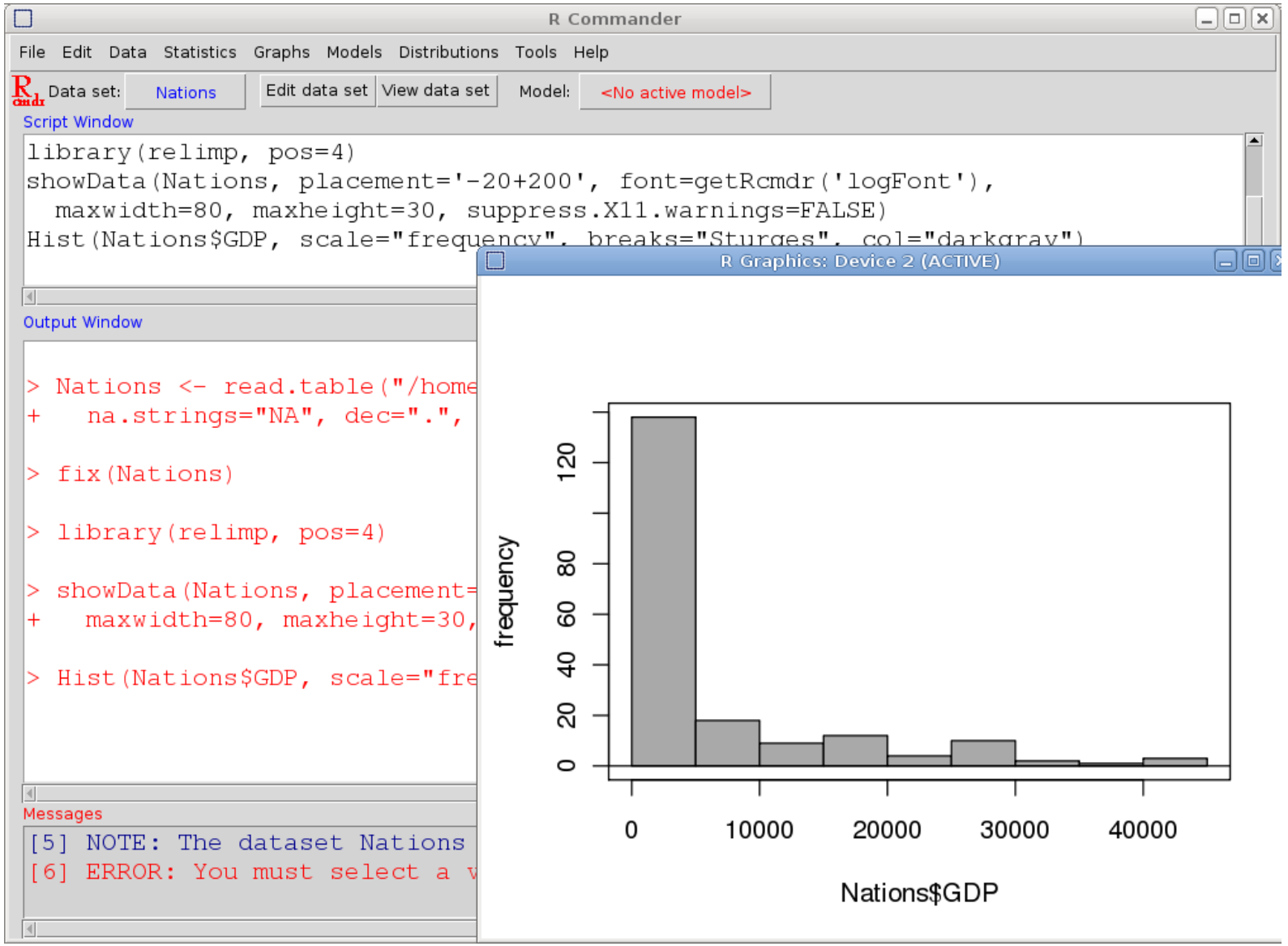
PyGeo


PyGeo Home - Iceweasel
File Edit View History Bookmarks Tools Help
http://pygeo.sourceforge.net/
Google
Meistbesuchte Seit...
KNOPPIX
PyGeo: a dynamic geometry toolkit
Home
What Distinguishes
Screenshots
Documentation
Links
Welcome to PyGeo
What is PyGeo?
Quoting from the PyGeo Overview document:
PyGeo is most fundamentally a framework for the creation of dynamic geometric constructions - i.e. constructions which embody defined and persistent geometric relationships responsive to real time on-screen interactivity.
PyGeo is, further, an implementation of this underlying abstract framework - exposing a range of geometric objects as the building blocks for virtual, dynamic geometric constructions.
The focus is away from Euclidian geometry and metrics, and toward later geometric and mathematical developments - particularly those connected with projective geometry of real space, and the geometry of complex numbers on the plane and on the unit (Riemann) sphere.
Line Arrays
News:
January 2006. Once again, new release for the new year. Download
Quote :
Done
knxm-icm2010....
PyGeo Home - I...
LXTerminal
11:27

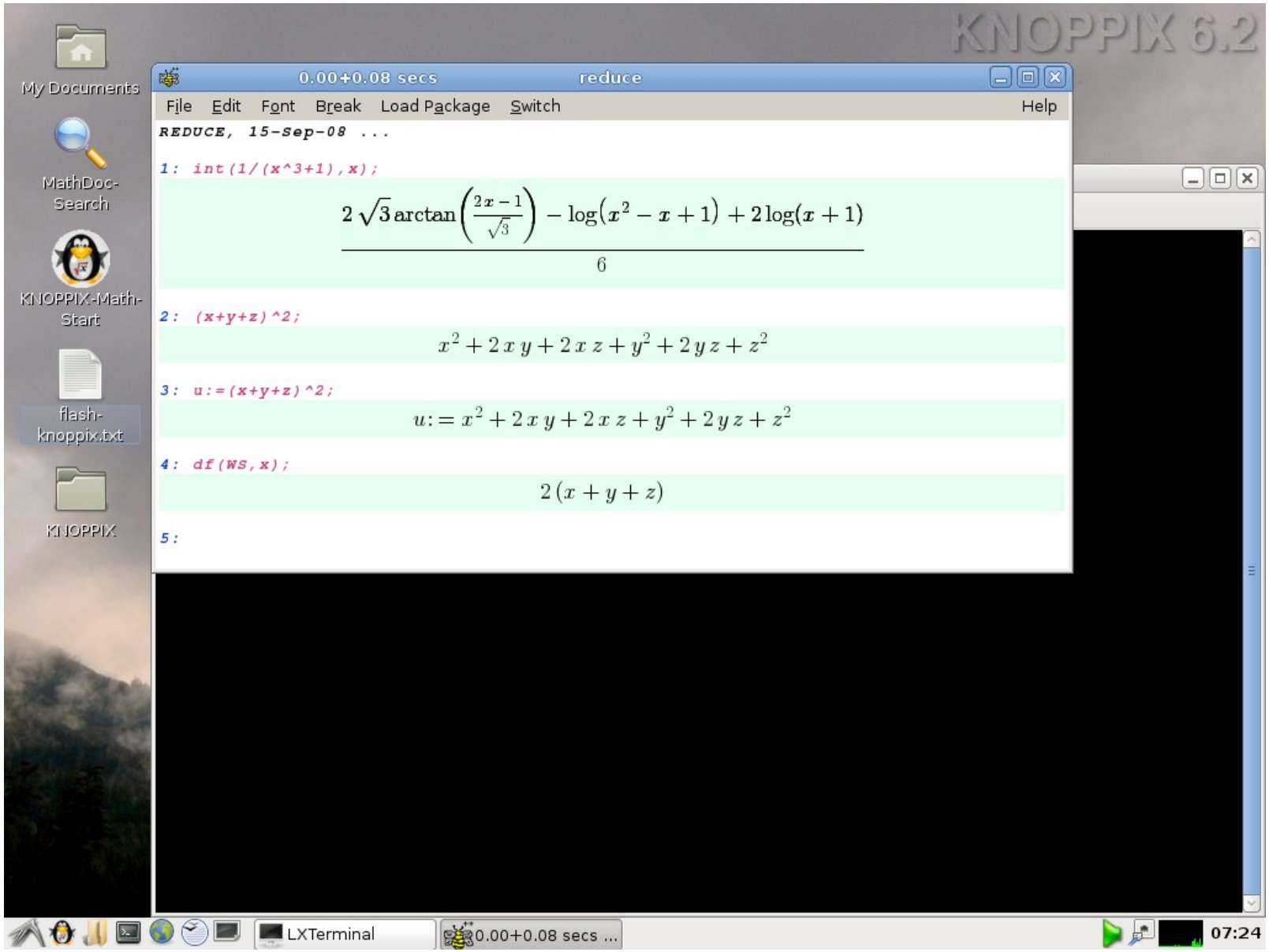
Qhull


Qhull code for Convex Hull, Delaunay Triangulation, Voronoi Diagram, ar
File Edit View History Bookmarks Tools Help
http://www.qhull.org/
Meistbesuchte Seit...
KNOPPIX
URL: http://www.qhull.org
To: News • Download • CiteSeer • Images • Manual • FAQ • Programs
Qhull
Qhull computes the convex hull, Delaunay triangulation, V
furthest-site Delaunay triangulation, and furthest-site Vor
and higher dimensions. Qhull implements the Quickhull alg
roundoff errors from floating point arithmetic. It compute
convex hull.
Qhull does not support constrained Delaunay triangulatior
generation of non-convex objects, or medium-sized input
A serious bug was found in Qhull 2003.1. Please upgrade
News and Bugs about Qhull 2010.1 2010/01/14
Download Qhull
Examples of Qhull output
Gitorious C++ interface to Qhull
Search
How is Qhull used?
CiteSeer and Google Scholar ref
Google Qhull, Qhull Images, Qvo
MATLAB uses Qhull for their cor
tsearchn voronoin. MATLAB R14
The Debian build of GNU Octave
Mathematica's Delaunay interfac
Done
Camera (Euclidean view)
LXTerminal
File Edit Tabs Help
knoppix@Microknoppix:~$ rbox 1000 s | qhull Tv G FA > output
qhull output completed. Verifying that 1000 points are
below 2.1e-15 of the nearest facet.
knoppix@Microknoppix:~$ geomview output
knxm-ic...
Qhull co...
skeleto...
LXTermi...
Camera...
[Geomv...
[Tools]
11:26

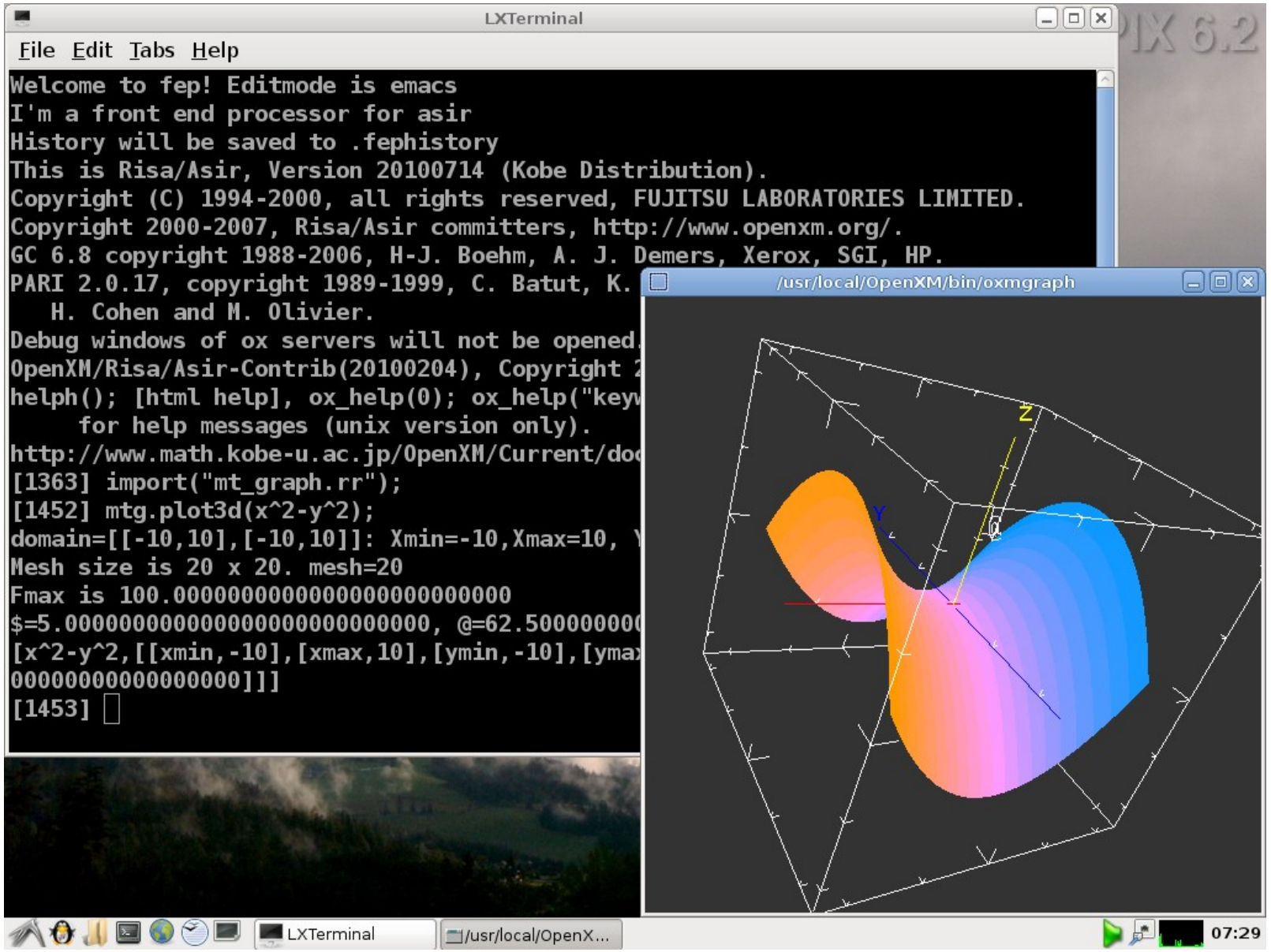
R commander


R Commander
File Edit Data Statistics Graphs Models Distributions Tools Help
Data set: Nations
Edit data set
View data set
Model: <No active model>
Script Window
library(relimp, pos=4)
showData(Nations, placement='-20+200', font=getRcmdr('logFont'),
maxwidth=80, maxheight=30, suppress.X11.warnings=FALSE)
Hist(Nations$GDP, scale="frequency", breaks="Sturges", col="darkgray")
Output Window
> Nations <- read.table("/home
+ na.strings="NA", dec=".",
> fix(Nations)
> library(relimp, pos=4)
> showData(Nations, placement=
+ maxwidth=80, maxheight=30,
> Hist(Nations$GDP, scale="fre
Messages
[5] NOTE: The dataset Nations
[6] ERROR: You must select a
R Graphics: Device 2 (ACTIVE)
frequency
0
20
40
60
80
120
0
10000
20000
30000
40000
Nations$GDP

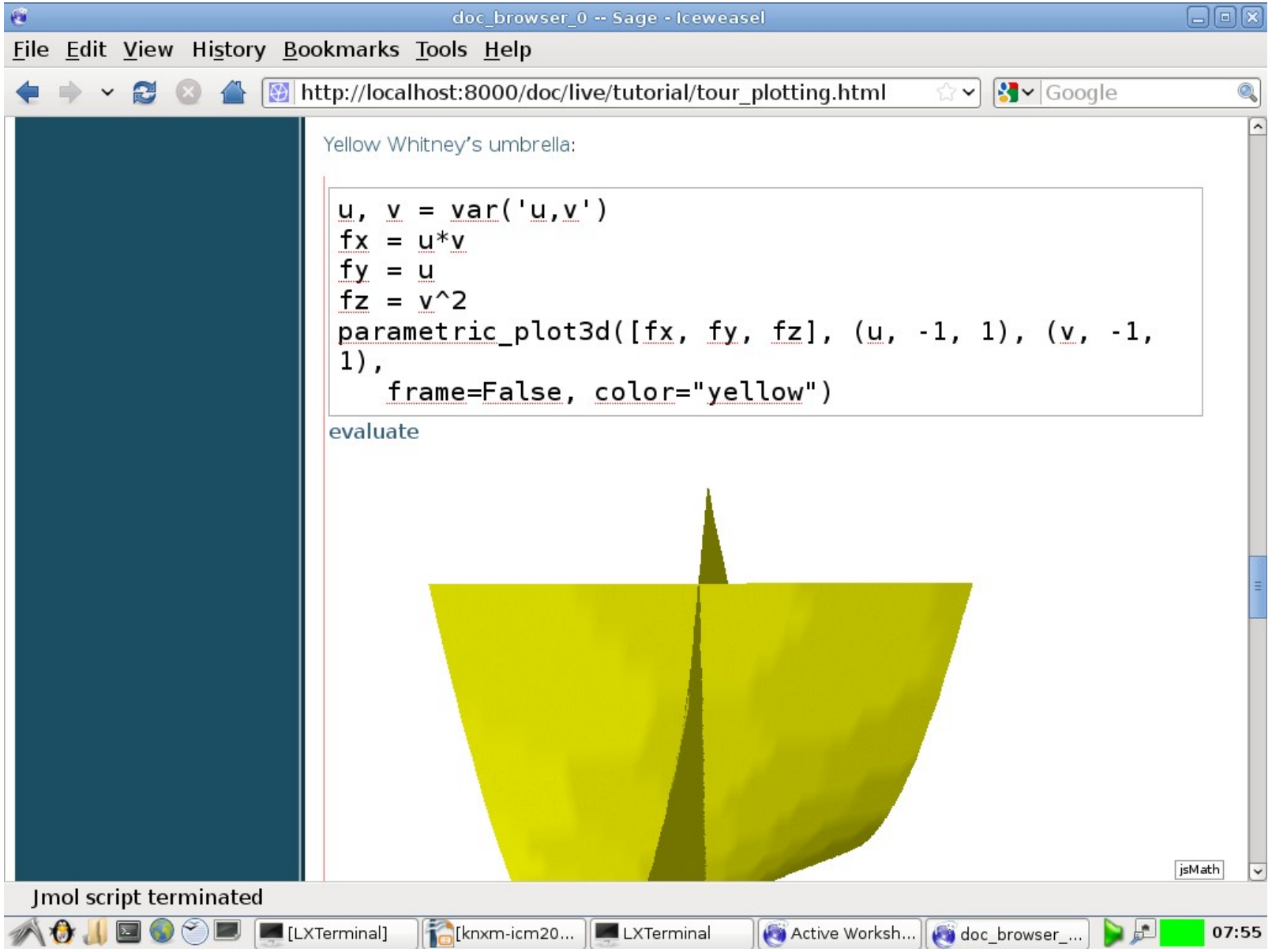
Reduce


KNOPPIX 6.2
My Documents
MathDoc-Search
KNOPPIX-Math-Start
flash-knoppix.txt
KNOPPIX
0.00+0.08 secs
reduce
File Edit Font Break Load Package Switch Help
REDUCE, 15-Sep-08 ...
1: int(1/(x^3+1),x);
$$\frac{2\sqrt{3}\arctan\left(\frac{2x-1}{\sqrt{3}}\right)-\log\left(x^2-x+1\right)+2\log(x+1)}{6}$$
2: (x+y+z)^2;
$$x^2+2xy+2xz+y^2+2yz+z^2$$
3: u:=(x+y+z)^2;
$$u:=x^2+2xy+2xz+y^2+2yz+z^2$$
4: df(WS,x);
$$2(x+y+z)$$
5:
LXTerminal
0.00+0.08 secs ...
07:24

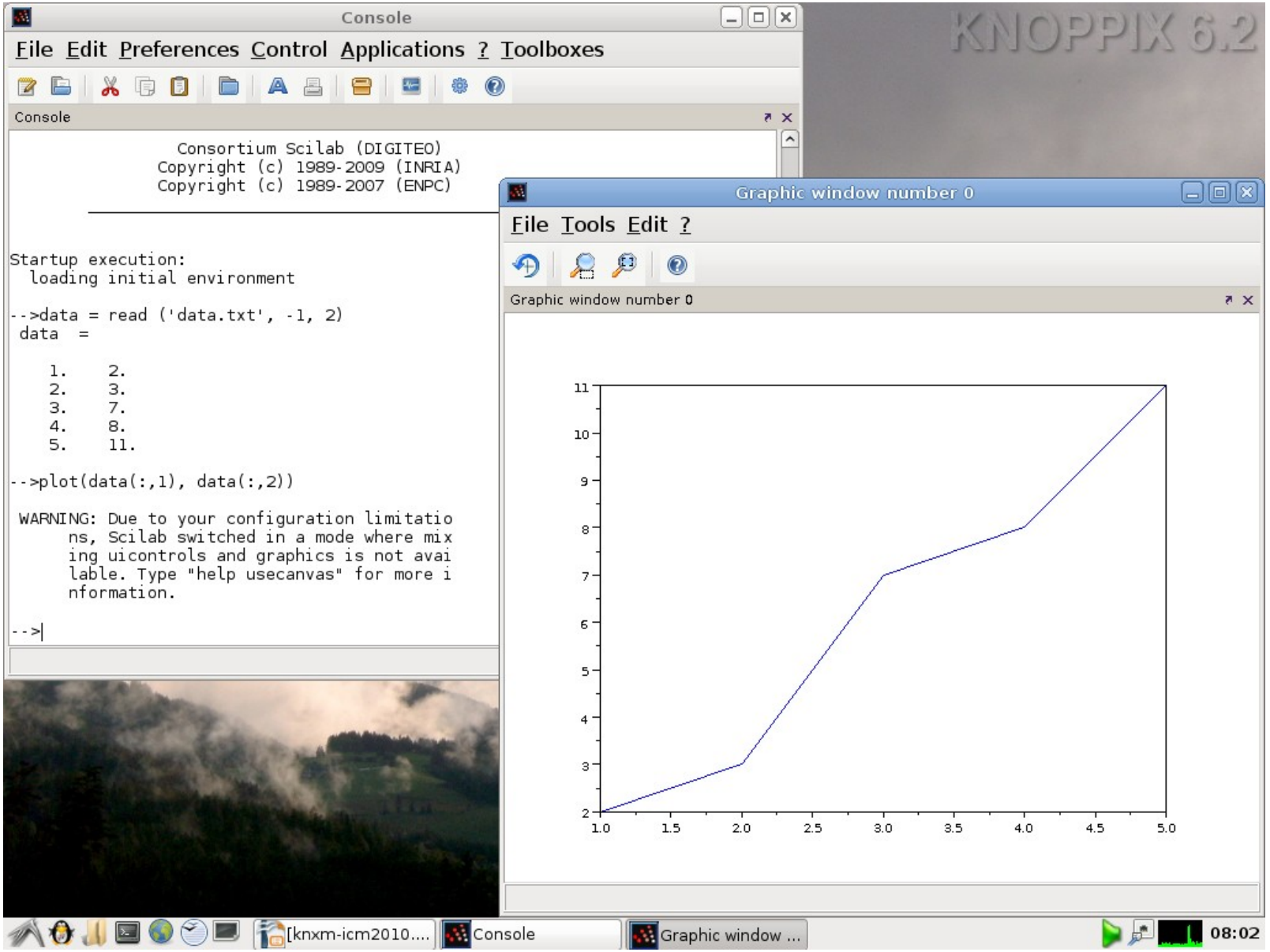
Risa/Asir (OpenXM)



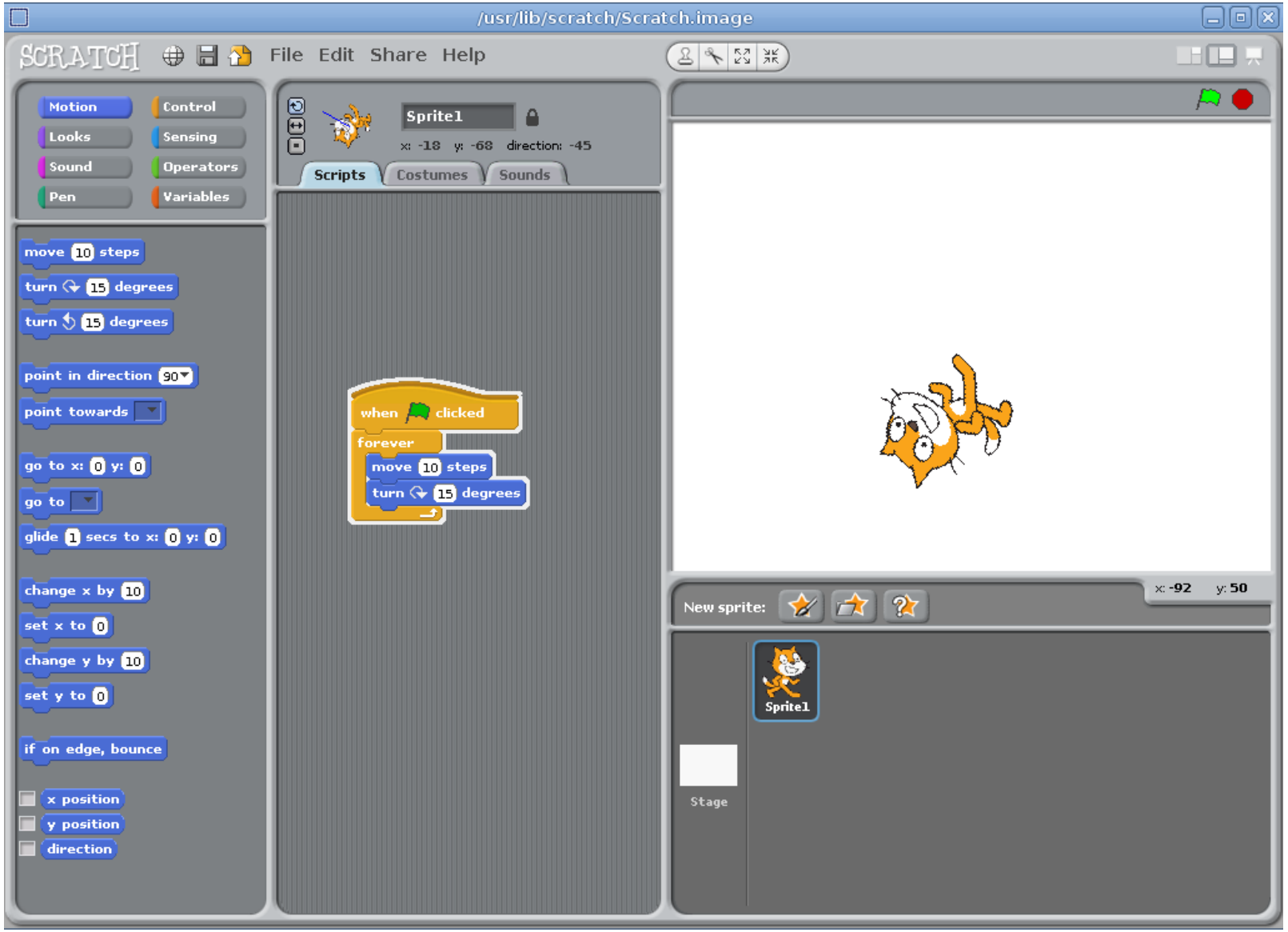
SAGE


doc_browser_0 -- Sage - Iceweasel
File Edit View History Bookmarks Tools Help
http://localhost:8000/doc/live/tutorial/tour_plotting.html
Google
Yellow Whitney's umbrella:
u, v = var('u,v')
fx = u*v
fy = u
fz = v^2
parametric_plot3d([fx, fy, fz], (u, -1, 1), (v, -1, 1),
frame=False, color="yellow")
evaluate
jsMath
Jmol script terminated
[LXTerminal]
[knxm-icm20...
LXTerminal
Active Worksh...
doc_browser_...
07:55

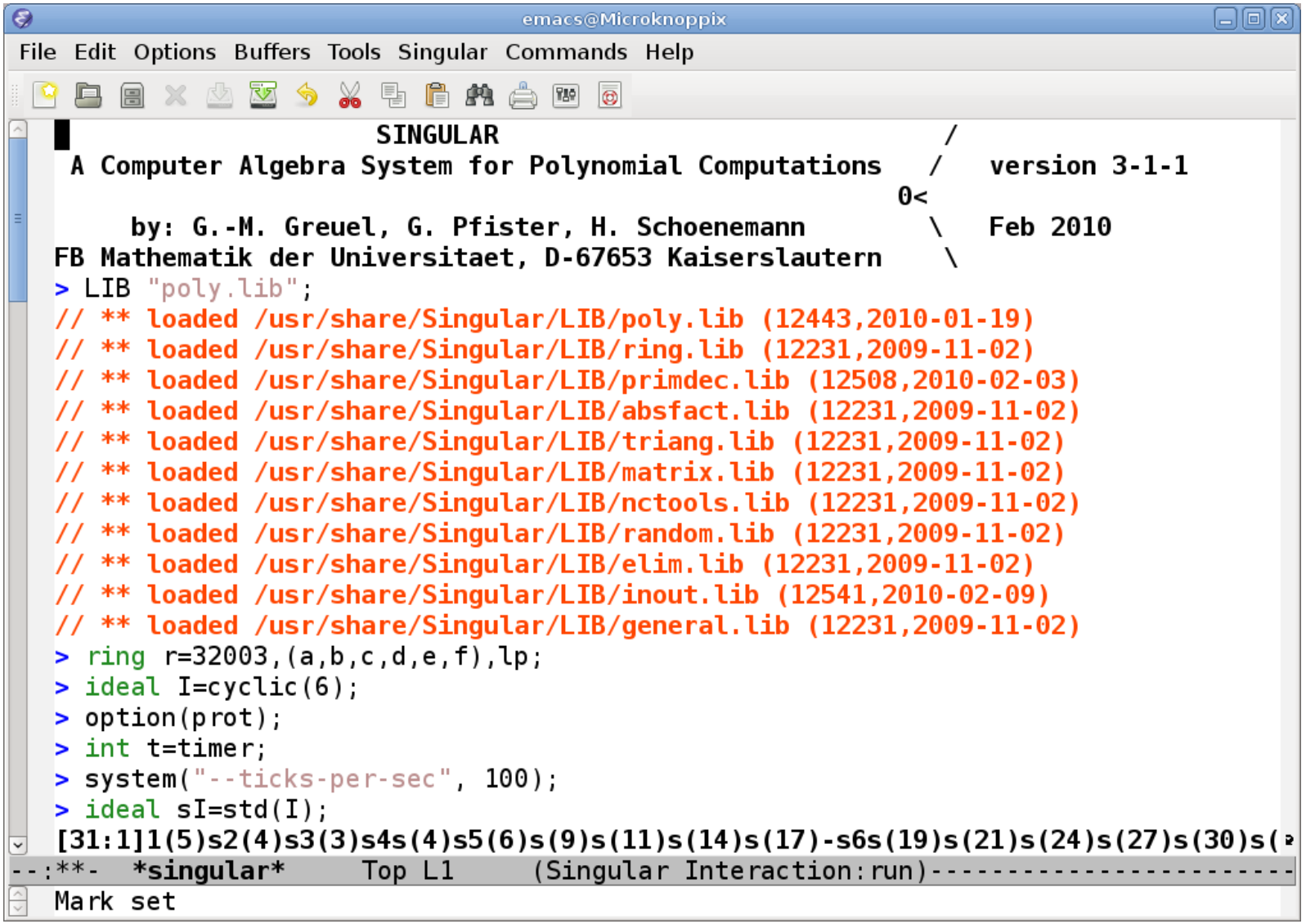
Scilab


Console
File Edit Preferences Control Applications ? Toolboxes
Console
Consortium Scilab (DIGITEO)
Copyright (c) 1989-2009 (INRIA)
Copyright (c) 1989-2007 (ENPC)
Startup execution:
loading initial environment
-->data = read ('data.txt', -1, 2)
data =
1. 2.
2. 3.
3. 7.
4. 8.
5. 11.
-->plot(data(:,1), data(:,2))
WARNING: Due to your configuration limitations, Scilab switched in a mode where mixing uicontrols and graphics is not available. Type "help usecanvas" for more information.
-->
KNOPPIX 6.2
Graphic window number 0
File Tools Edit ?
Graphic window number 0
11
10
9
8
7
6
5
4
3
2
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
[knxm-icm2010....
Console
Graphic window ...
08:02

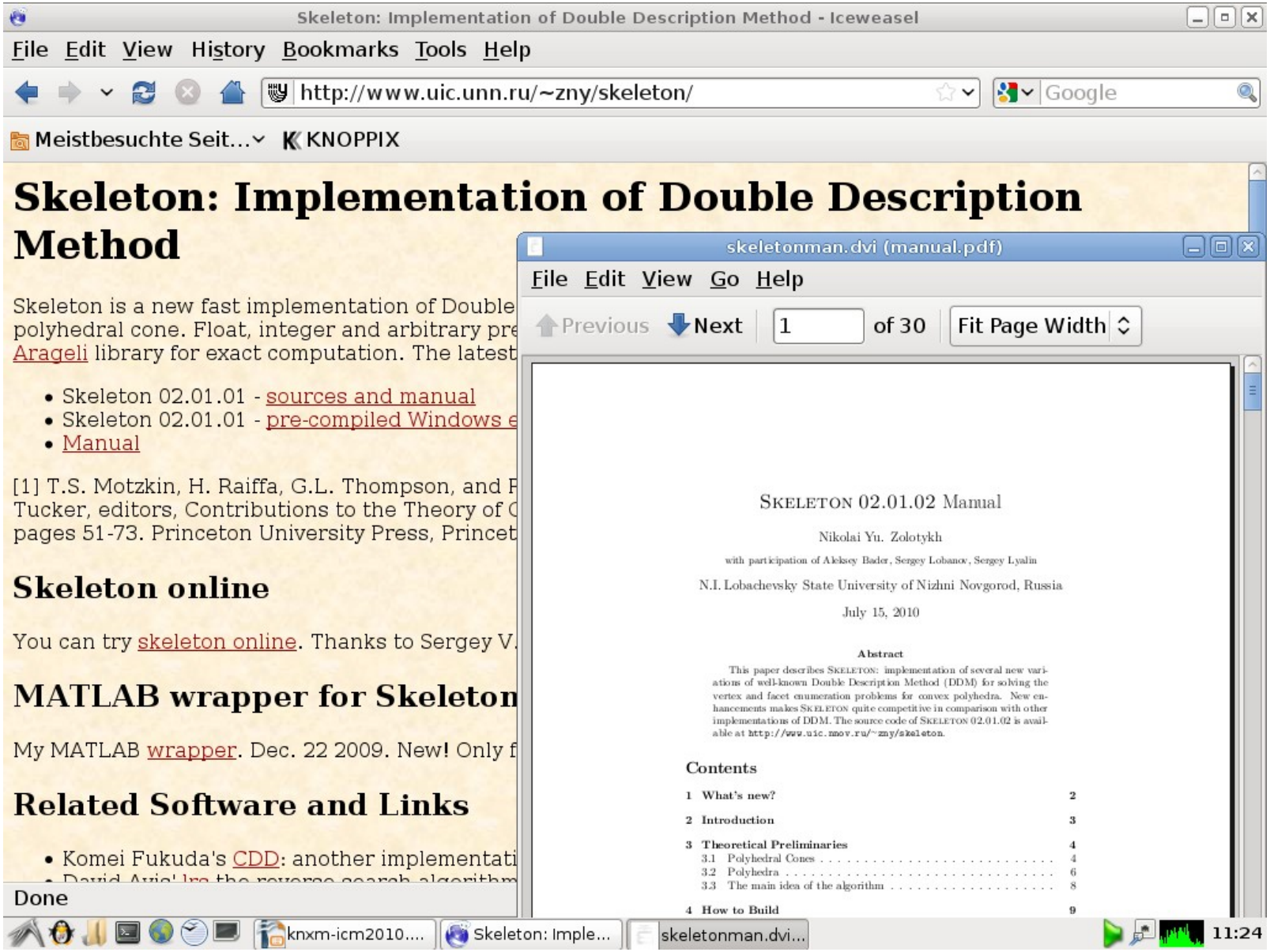
Scratch


/usr/lib/scratch/Scratch.image
SCRATCH
File Edit Share Help
Motion
Control
Looks
Sensing
Sound
Operators
Pen
Variables
move 10 steps
turn 15 degrees
turn 15 degrees
point in direction 90
point towards
go to x: 0 y: 0
go to
glide 1 secs to x: 0 y: 0
change x by 10
set x to 0
change y by 10
set y to 0
if on edge, bounce
x position
y position
direction
Sprite1
x: -18 y: -68 direction: -45
Scripts
Costumes
Sounds
when clicked
forever
move 10 steps
turn 15 degrees
New sprite:
x: -92 y: 50
Sprite1
Stage

Singular


emacs@Microknoppix
File Edit Options Buffers Tools Singular Commands Help
SINGULAR /
A Computer Algebra System for Polynomial Computations / version 3-1-1
0<
by: G.-M. Greuel, G. Pfister, H. Schoenemann \ Feb 2010
FB Mathematik der Universitaet, D-67653 Kaiserslautern \
> LIB "poly.lib";
// ** loaded /usr/share/Singular/LIB/poly.lib (12443,2010-01-19)
// ** loaded /usr/share/Singular/LIB/ring.lib (12231,2009-11-02)
// ** loaded /usr/share/Singular/LIB/primdec.lib (12508,2010-02-03)
// ** loaded /usr/share/Singular/LIB/absfact.lib (12231,2009-11-02)
// ** loaded /usr/share/Singular/LIB/triang.lib (12231,2009-11-02)
// ** loaded /usr/share/Singular/LIB/matrix.lib (12231,2009-11-02)
// ** loaded /usr/share/Singular/LIB/nctools.lib (12231,2009-11-02)
// ** loaded /usr/share/Singular/LIB/random.lib (12231,2009-11-02)
// ** loaded /usr/share/Singular/LIB/elim.lib (12231,2009-11-02)
// ** loaded /usr/share/Singular/LIB/inout.lib (12541,2010-02-09)
// ** loaded /usr/share/Singular/LIB/general.lib (12231,2009-11-02)
> ring r=32003,(a,b,c,d,e,f),lp;
> ideal I=cyclic(6);
> option(prot);
> int t=timer;
> system("--ticks-per-sec", 100);
> ideal sI=std(I);
[31:1]1(5)s2(4)s3(3)s4s(4)s5(6)s(9)s(11)s(14)s(17)-s6s(19)s(21)s(24)s(27)s(30)s(
--:**- *singular* Top L1 (Singular Interaction:run)----------
Mark set

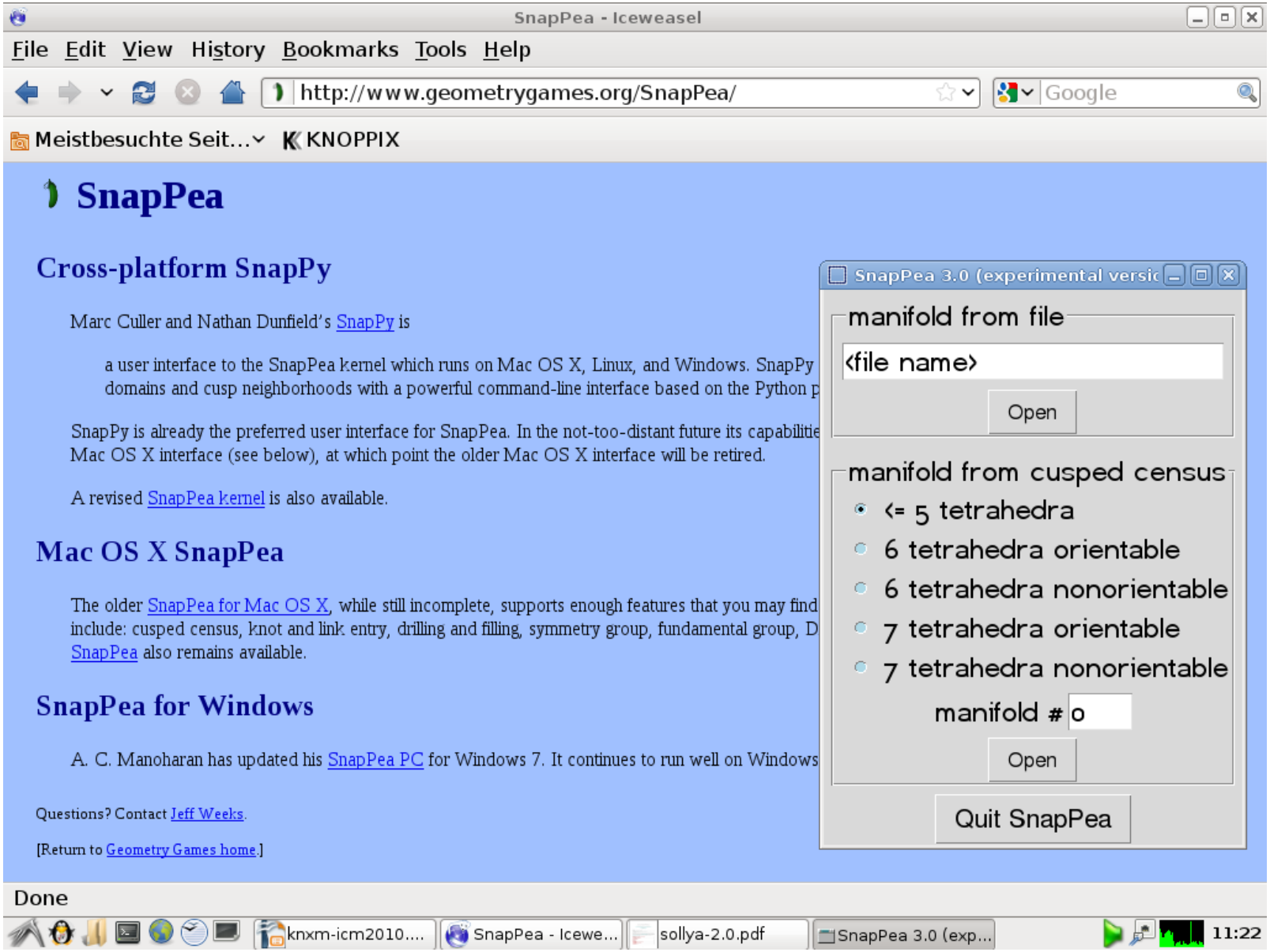
Skeleton


Skeleton: Implementation of Double Description Method - Iceweasel
File Edit View History Bookmarks Tools Help
http://www.uic.unn.ru/~zny/skeleton/
Google
Meistbesuchte Seit...
KNOPPIX
Skeleton: Implementation of Double Description Method
Skeleton is a new fast implementation of Double
polyhedral cone. Float, integer and arbitrary pre
Arageli library for exact computation. The latest
Skeleton 02.01.01 - sources and manual
Skeleton 02.01.01 - pre-compiled Windows e
Manual
[1] T.S. Motzkin, H. Raiffa, G.L. Thompson, and R
Tucker, editors, Contributions to the Theory of G
pages 51-73. Princeton University Press, Princet
Skeleton online
You can try skeleton online. Thanks to Sergey V.
MATLAB wrapper for Skeleton
My MATLAB wrapper. Dec. 22 2009. New! Only f
Related Software and Links
Komei Fukuda's CDD: another implementati
Done
skeletonman.dvi (manual.pdf)
File Edit View Go Help
Previous Next 1 of 30 Fit Page Width
SKELETON 02.01.02 Manual
Nikolai Yu. Zolotykh
with participation of Aleksey Bader, Sergey Lobanov, Sergey Lyalin
N.I. Lobachevsky State University of Nizhni Novgorod, Russia
July 15, 2010
Abstract
This paper describes SKELETON: implementation of several new variations of well-known Double Description Method (DDM) for solving the vertex and facet enumeration problems for convex polyhedra. New enhancements makes SKELETON quite competitive in comparison with other implementations of DDM. The source code of SKELETON 02.01.02 is available at http://www.uic.nnov.ru/~zny/skeleton.
Contents
1 What's new? 2
2 Introduction 3
3 Theoretical Preliminaries 4
3.1 Polyhedral Cones 4
3.2 Polyhedra 6
3.3 The main idea of the algorithm 8
4 How to Build 9
knxm-icm2010....
Skeleton: Imple...
skeletonman.dvi...
11:24

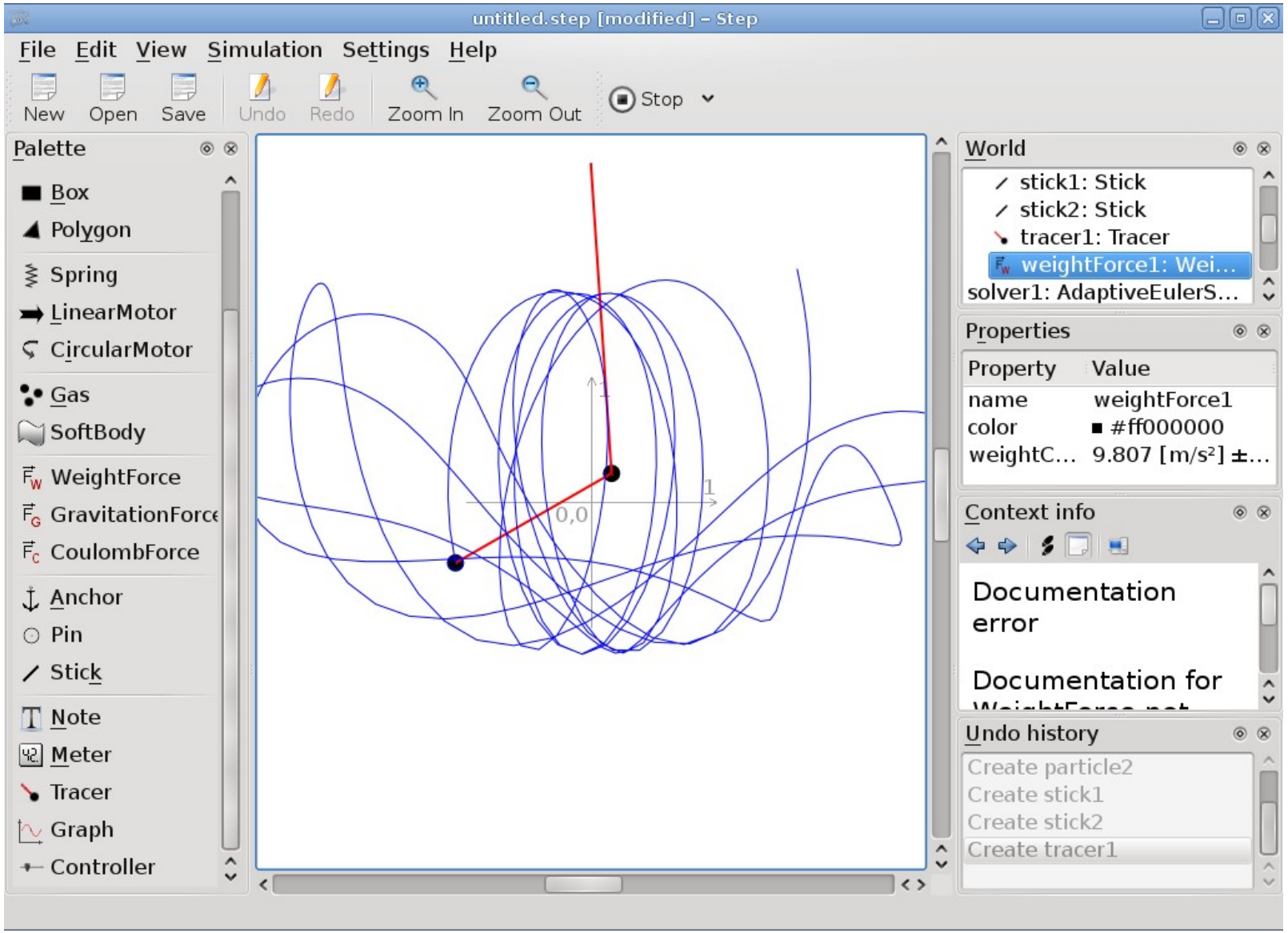
Sollya

Sollya software tool - Iceweasel
File Edit View History Bookmarks Tools Help
http://sollya.gforge.inria.fr/
Google
Meistbesuchte Seit...
KNOPPIX
Sollya
Sollya is a tool environment for safe floating-point code development. It is particularily targeted to the automatized implementation of mathematical floating-point libraries (libm). Amongst other features, it offers a certified infinity (supremum) norm and a fast Remez algorithm.
Sollya is developped by Arénaire and written by Christoph Lauter, Sylvain Chevillard, M. Joldes and N. Jourdan.
Sollya provides you:
a certified infinity (supremum) norm for comput
an automatized implementer for approximation
a fast implementation of Remez algorithm for co
a full-featured programming language adapted t
a faithful-rounding, multi-precision evaluator of
a highly accurate and fast floating-point infinity
support for floating-point rounding operators ar
a special floating-point minimax procedure,
basic MathML input and output support,
interfaces for extending Sollya with your own co
Download Sollya:
Sollya 2.0 has been released and can be downl
A weekly build (last compiled on 08/08/2010) of
The latest development version is available throu
Done
sollya-2.0.pdf
File Edit View Go Help
Previous Next 1 of 151 Fit Page Width
Users' manual for the Sollya tool
Release 2.0
Sylvain Chevillard
sylvain.chevillard@ens-lyon.org
Christoph Lauter
christoph.lauter@ens-lyon.org
Mioara Joldes
mioara.joldes@ens-lyon.fr
April 20, 2010
License
The Sollya tool is Copyright © 2006-2010 by
knxm-icm2010....
Sollya software t...
sollya-2.0.pdf
11:23

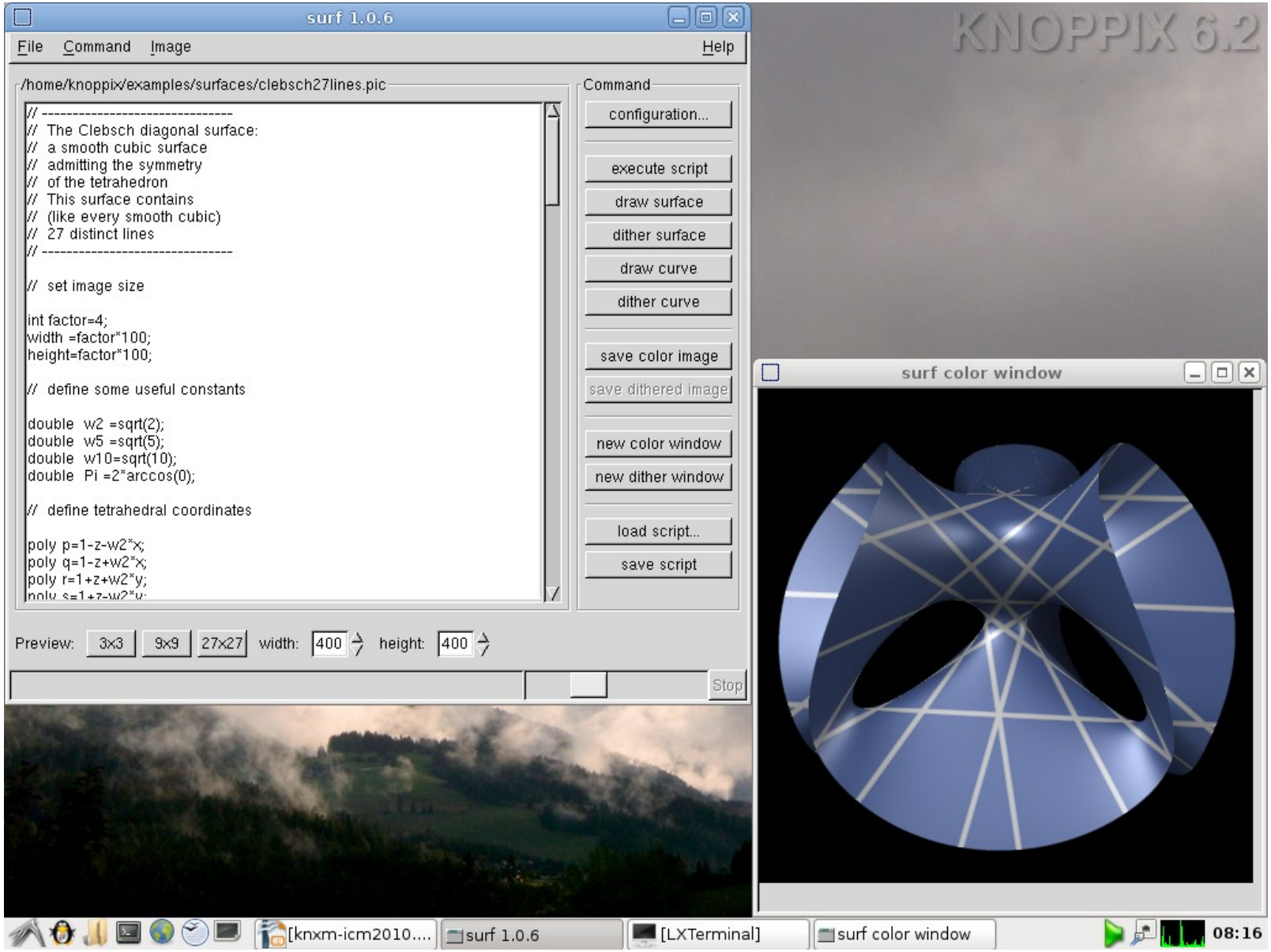
SnapPea


SnapPea - Iceweasel
File Edit View History Bookmarks Tools Help
http://www.geometrygames.org/SnapPea/
Google
Meistbesuchte Seit...
KNOPPIX
SnapPea
Cross-platform SnapPy
Marc Culler and Nathan Dunfield's SnapPy is
a user interface to the SnapPea kernel which runs on Mac OS X, Linux, and Windows. SnapPy
domains and cusp neighborhoods with a powerful command-line interface based on the Python p
SnapPy is already the preferred user interface for SnapPea. In the not-too-distant future its capabilitie
Mac OS X interface (see below), at which point the older Mac OS X interface will be retired.
A revised SnapPea kernel is also available.
Mac OS X SnapPea
The older SnapPea for Mac OS X, while still incomplete, supports enough features that you may find
include: cusped census, knot and link entry, drilling and filling, symmetry group, fundamental group, D
SnapPea also remains available.
SnapPea for Windows
A. C. Manoharan has updated his SnapPea PC for Windows 7. It continues to run well on Windows
Questions? Contact Jeff Weeks.
[Return to Geometry Games home.]
SnapPea 3.0 (experimental versic
manifold from file
<file name>
Open
manifold from cusped census
<= 5 tetrahedra
6 tetrahedra orientable
6 tetrahedra nonorientable
7 tetrahedra orientable
7 tetrahedra nonorientable
manifold # 0
Open
Quit SnapPea
Done
knxm-icm2010....
SnapPea - Icewe...
sollya-2.0.pdf
SnapPea 3.0 (exp...
11:22

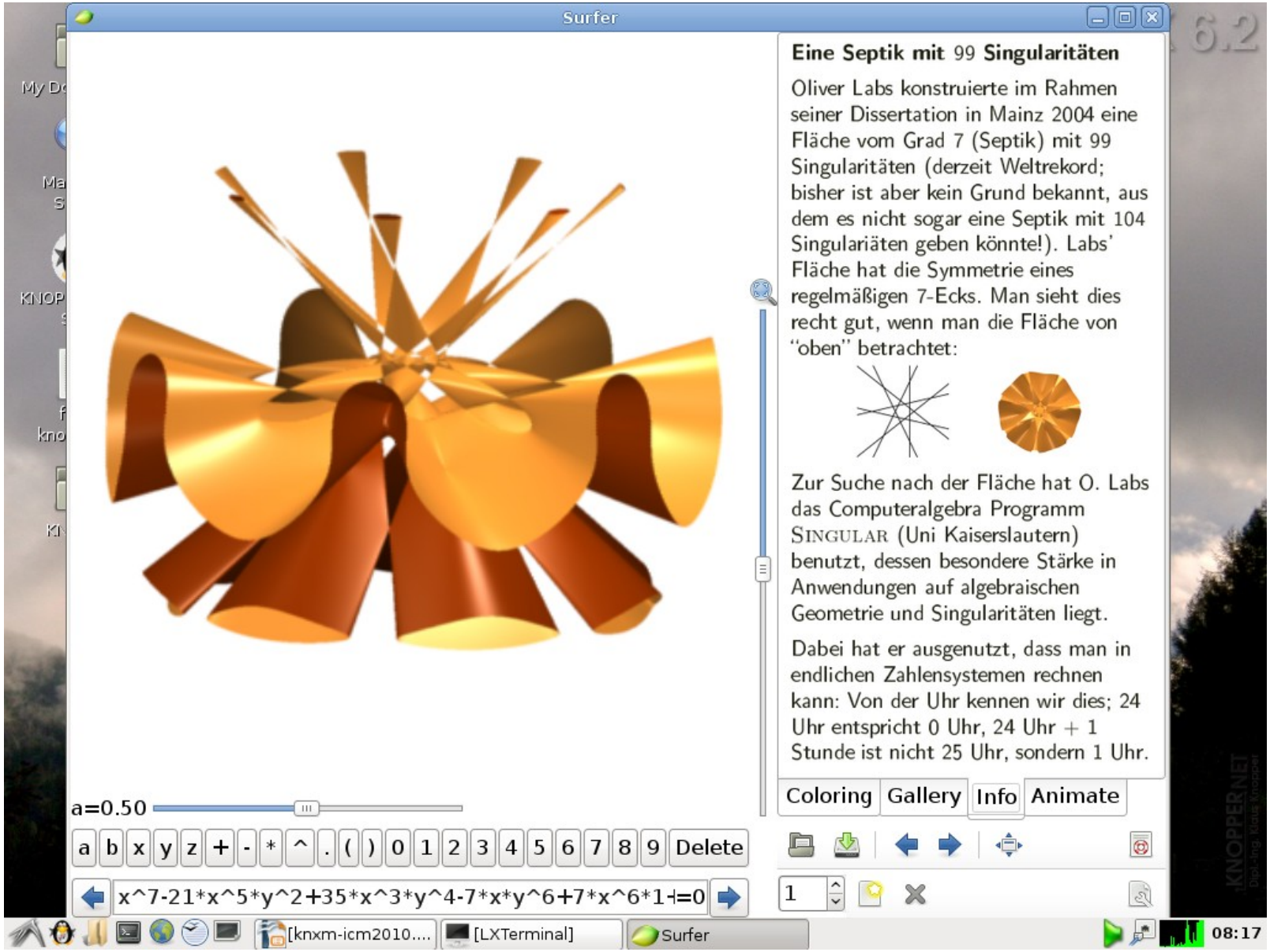
Step


untitled.step [modified] – Step
File Edit View Simulation Settings Help
New Open Save Undo Redo Zoom In Zoom Out Stop
Palette
Box
Polygon
Spring
LinearMotor
CircularMotor
Gas
SoftBody
WeightForce
GravitationForce
CoulombForce
Anchor
Pin
Stick
Note
Meter
Tracer
Graph
Controller
0,0
1
1
World
stick1: Stick
stick2: Stick
tracer1: Tracer
weightForce1: Wei...
solver1: AdaptiveEulerS...
Properties
Property Value
name weightForce1
color #ff000000
weightC... 9.807 [m/s²] ±...
Context info
Documentation error
Documentation for
Undo history
Create particle2
Create stick1
Create stick2
Create tracer1

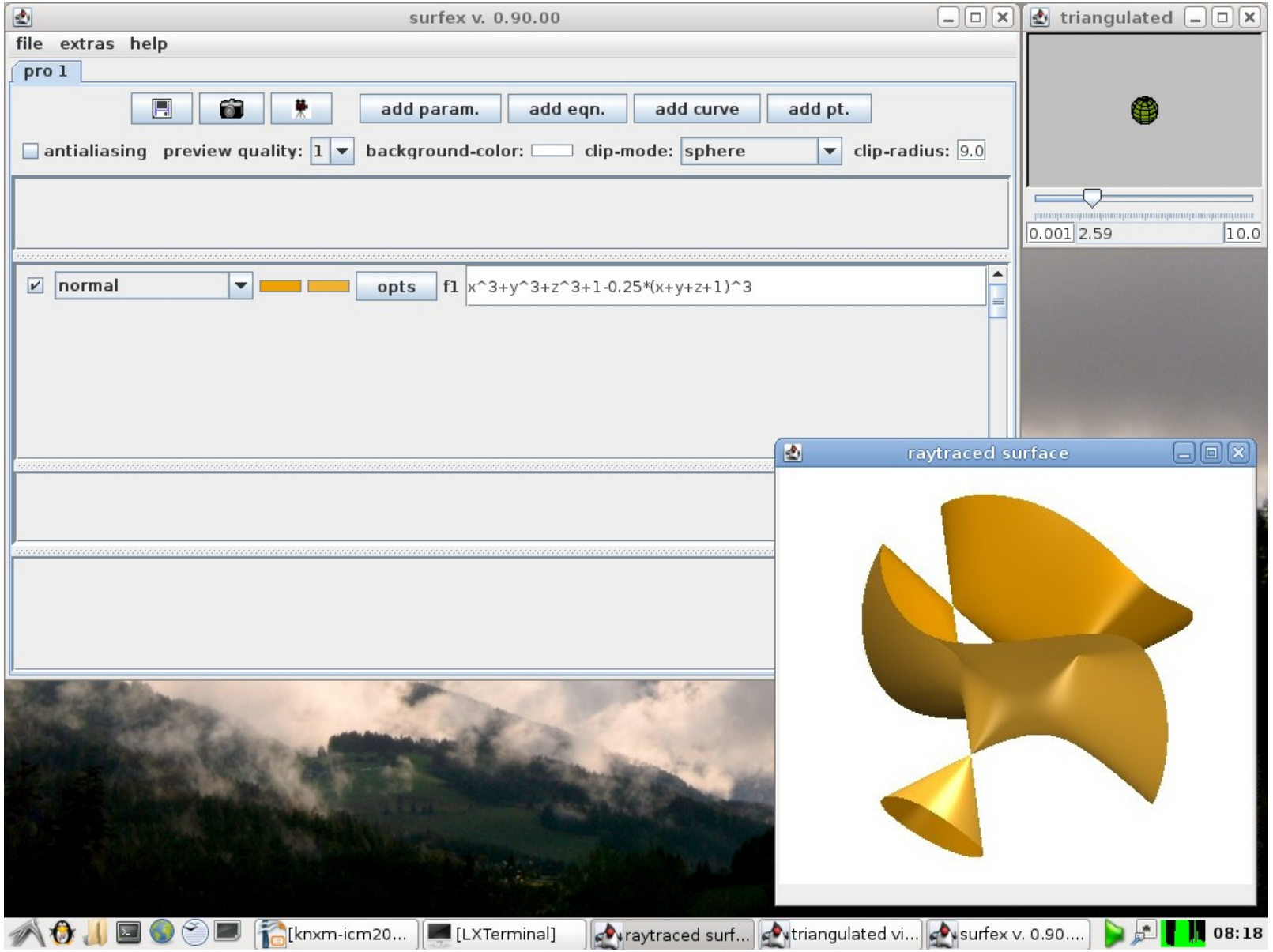
Surf


surf 1.0.6
File Command Image Help
/home/knoppix/examples/surfaces/clebsch27lines.pic
// ---
// The Clebsch diagonal surface:
// a smooth cubic surface
// admitting the symmetry
// of the tetrahedron
// This surface contains
// (like every smooth cubic)
// 27 distinct lines
// ---
// set image size
int factor=4;
width =factor*100;
height=factor*100;
// define some useful constants
double w2 =sqrt(2);
double w5 =sqrt(5);
double w10=sqrt(10);
double Pi =2*arccos(0);
// define tetrahedral coordinates
poly p=1-z-w2*x;
poly q=1-z+w2*x;
poly r=1+z+w2*y;
Command
configuration...
execute script
draw surface
dither surface
draw curve
dither curve
save color image
save dithered image
new color window
new dither window
load script...
save script
Preview: 3x3 9x9 27x27 width: 400 height: 400
Stop
KNOPPIX 6.2
surf color window
[knxm-icm2010....
surf 1.0.6
[LXTerminal]
surf color window
08:16

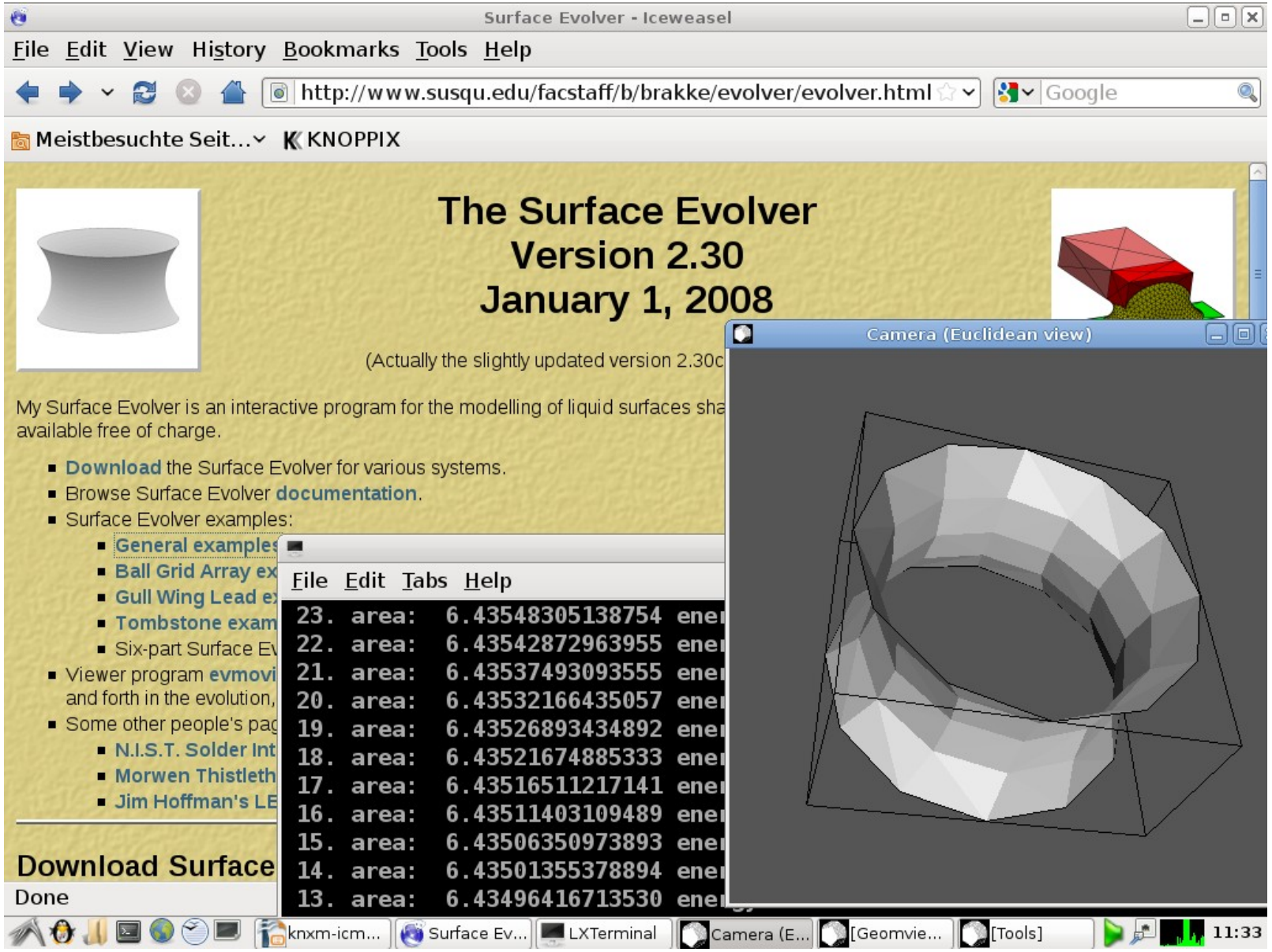
Surfer


Surfer
Eine Septik mit 99 Singularitäten
Oliver Labs konstruierte im Rahmen seiner Dissertation in Mainz 2004 eine Fläche vom Grad 7 (Septik) mit 99 Singularitäten (derzeit Weltrekord; bisher ist aber kein Grund bekannt, aus dem es nicht sogar eine Septik mit 104 Singulariäten geben könnte!). Labs' Fläche hat die Symmetrie eines regelmäßigen 7-Ecks. Man sieht dies recht gut, wenn man die Fläche von "oben" betrachtet:
Zur Suche nach der Fläche hat O. Labs das Computeralgebra Programm SINGULAR (Uni Kaiserslautern) benutzt, dessen besondere Stärke in Anwendungen auf algebraischen Geometrie und Singularitäten liegt.
Dabei hat er ausgenutzt, dass man in endlichen Zahlensystemen rechnen kann: Von der Uhr kennen wir dies; 24 Uhr entspricht 0 Uhr, 24 Uhr + 1 Stunde ist nicht 25 Uhr, sondern 1 Uhr.
Coloring
Gallery
Info
Animate
a=0.50
a b x y z + - * ^ . ( ) 0 1 2 3 4 5 6 7 8 9 Delete
x^7-21*x^5*y^2+35*x^3*y^4-7*x*y^6+7*x^6*1=0
[knxm-icm2010....
[LXTerminal]
Surfer
08:17

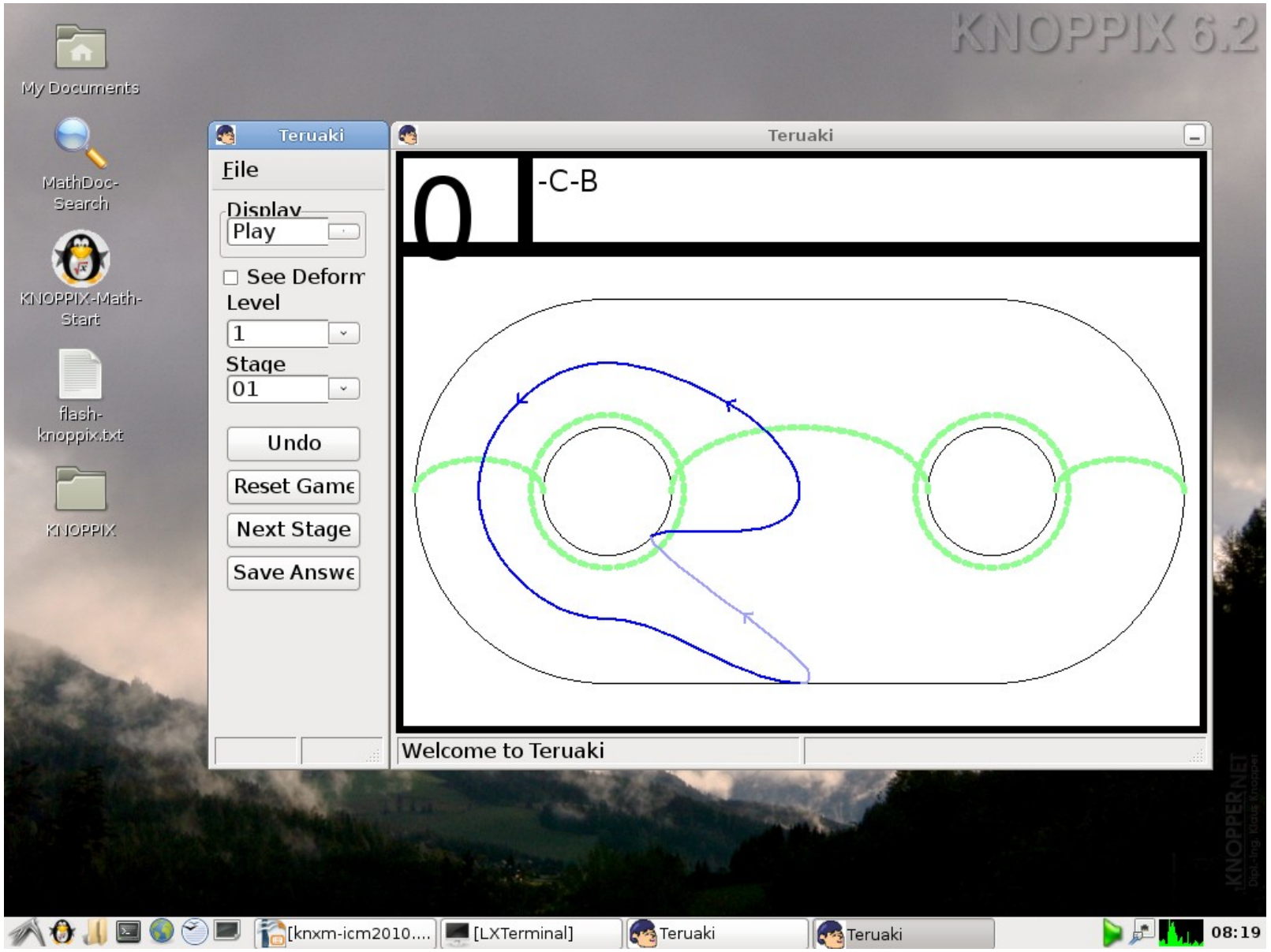
Surfex


surfex v. 0.90.00
file extras help
pro 1
add param.
add eqn.
add curve
add pt.
antialiasing
preview quality: 1
background-color:
clip-mode: sphere
clip-radius: 9.0
normal
opts
f1
x^3+y^3+z^3+1-0.25*(x+y+z+1)^3
triangulated
0.001
2.59
10.0
raytraced surface
[knxm-icm20...
[LXTerminal]
raytraced surf...
triangulated vi...
surfex v. 0.90....
08:18

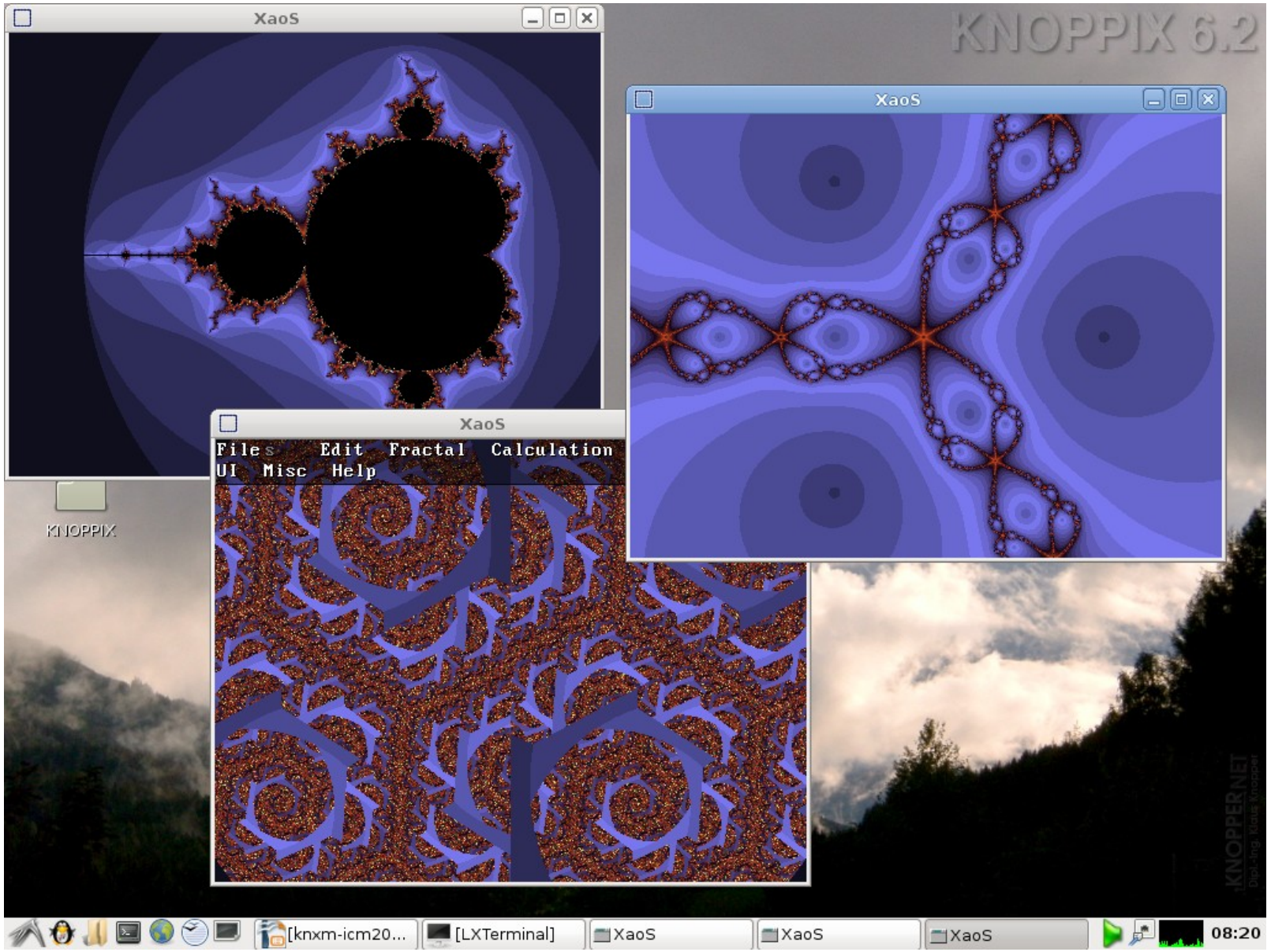
Surface Evolver



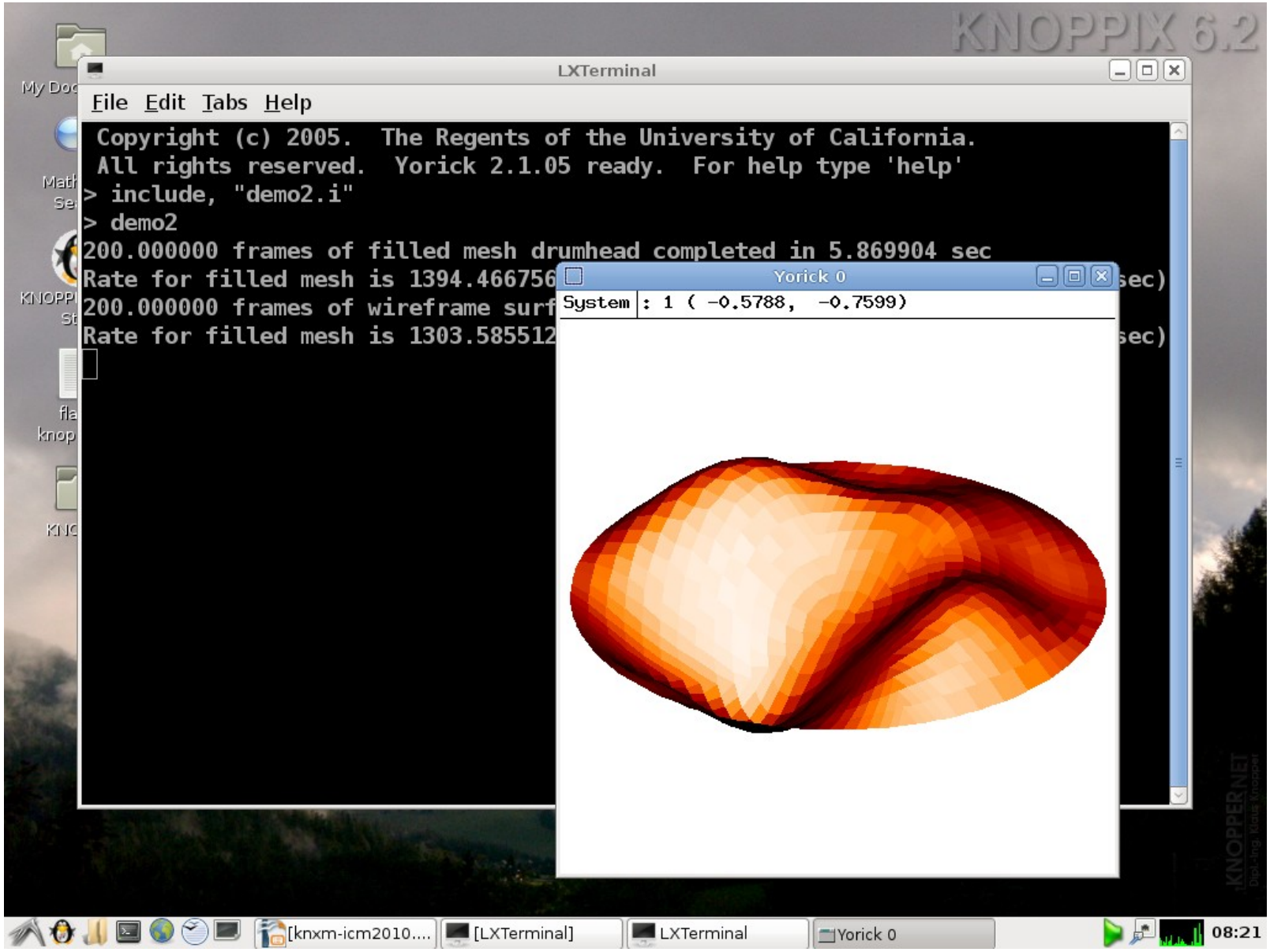
Teruaki


KNOPPIX 6.2
My Documents
MathDoc-Search
KNOPPIX-Math-Start
flash-knoppix.txt
KNOPPIX
Teruaki
File
Display
Play
See Deform
Level
1
Stage
01
Undo
Reset Game
Next Stage
Save Answe
Teruaki
0
-C-B
Welcome to Teruaki
[knxm-icm2010....
[LXTerminal]
Teruaki
Teruaki
08:19

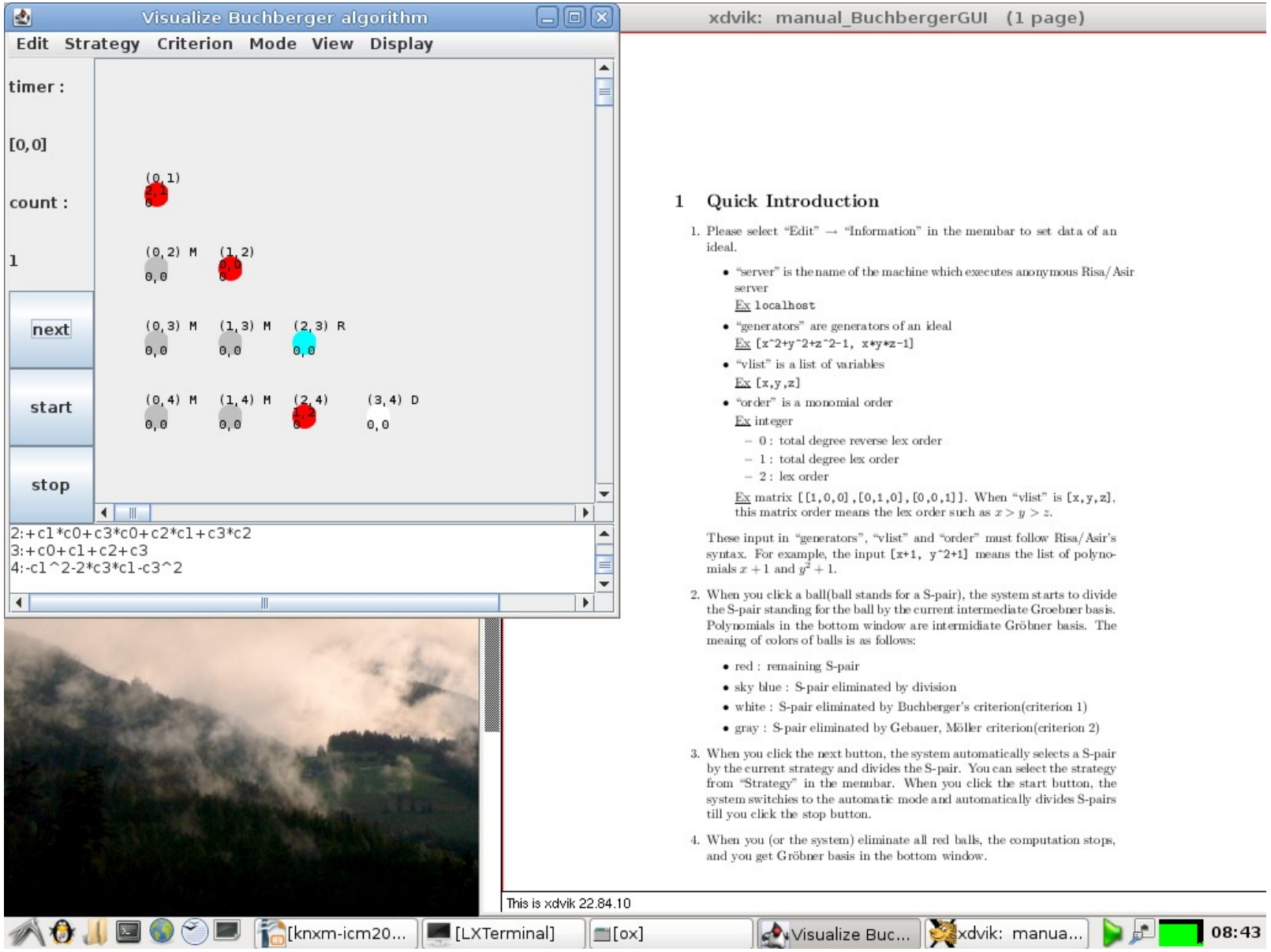
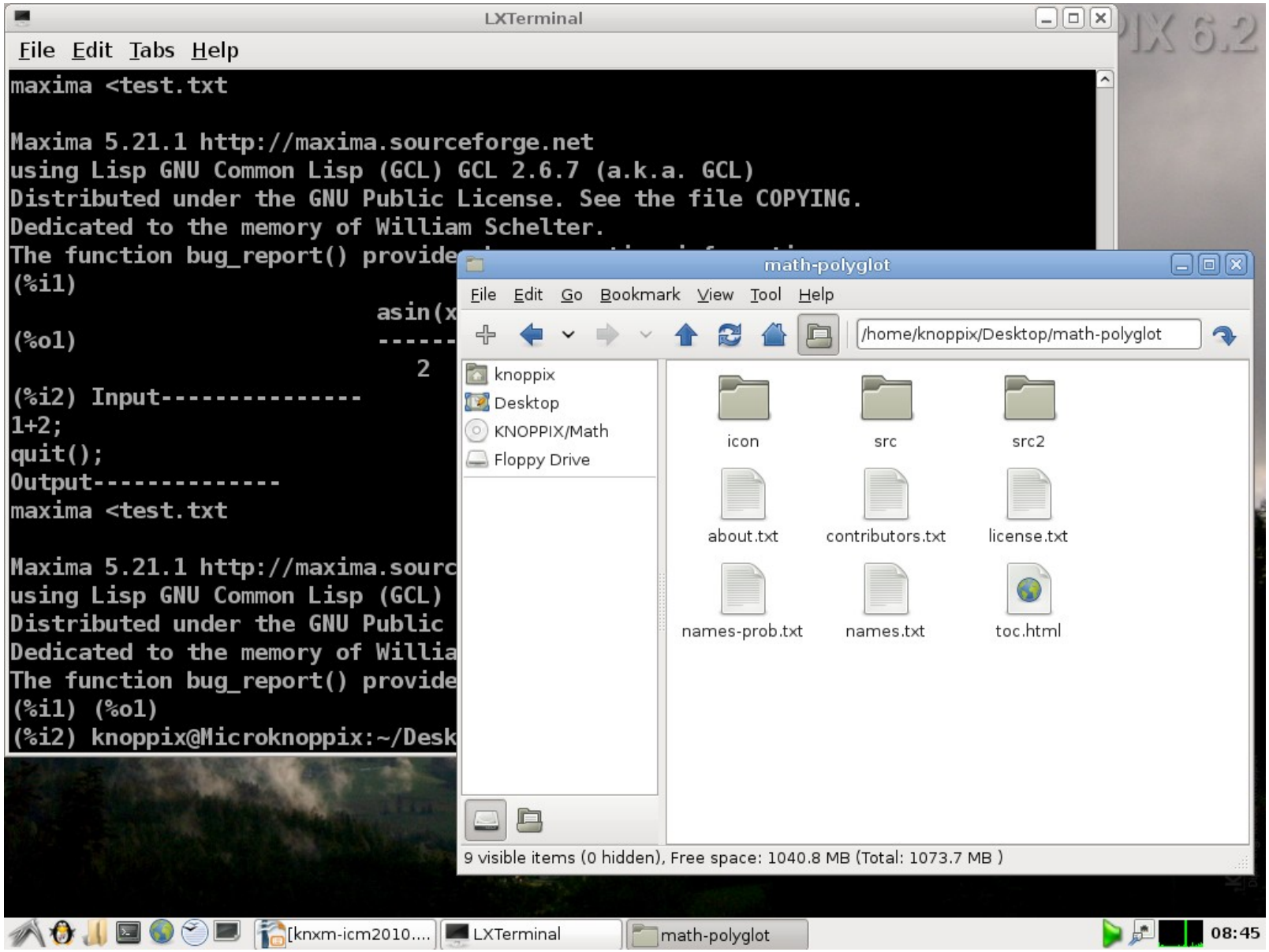
XaoS


XaoS
XaoS
XaoS
File Edit Fractal Calculation
UI Misc Help
KNOPPIX
KNOPPIX 6.2
[knxm-icm20...
[LXTerminal]
XaoS
XaoS
XaoS
08:20

Yorick


KNOPPIX 6.2
LXTerminal
File Edit Tabs Help
Copyright (c) 2005. The Regents of the University of California.
All rights reserved. Yorick 2.1.05 ready. For help type 'help'
> include, "demo2.i"
> demo2
200.000000 frames of filled mesh drumhead completed in 5.869904 sec
Rate for filled mesh is 1394.466756
200.000000 frames of wireframe surf
Rate for filled mesh is 1303.585512
Yorick 0
System : 1 (-0.5788, -0.7599)
[knxm-icm2010....
[LXTerminal]
LXTerminal
Yorick 0
08:21

cca


Visualize Buchberger algorithm
Edit Strategy Criterion Mode View Display
timer :
[0,0]
count :
1
next
start
stop
(0,1)
(0,2) M (1,2)
(0,3) M (1,3) M (2,3) R
(0,4) M (1,4) M (2,4) (3,4) D
2:+c1*c0+c3*c0+c2*c1+c3*c2
3:+c0+c1+c2+c3
4:-c1^2-2*c3*c1-c3^2
xdvik: manual_BuchbergerGUI (1 page)
1 Quick Introduction
1. Please select "Edit" → "Information" in the menubar to set data of an ideal.
• "server" is the name of the machine which executes anonymous Risa/Asir server
Ex localhost
• "generators" are generators of an ideal
Ex [x^2+y^2+z^2-1, x*y*z-1]
• "vlist" is a list of variables
Ex [x,y,z]
• "order" is a monomial order
Ex integer
– 0 : total degree reverse lex order
– 1 : total degree lex order
– 2 : lex order
Ex matrix [[1,0,0],[0,1,0],[0,0,1]]. When "vlist" is [x,y,z], this matrix order means the lex order such as x > y > z.
These input in "generators", "vlist" and "order" must follow Risa/Asir's syntax. For example, the input [x+1, y^2+1] means the list of polynomials x + 1 and y^2 + 1.
2. When you click a ball(ball stands for a S-pair), the system starts to divide the S-pair standing for the ball by the current intermediate Groebner basis. Polynomials in the bottom window are intermidiate Gröbner basis. The meaing of colors of balls is as follows:
• red : remaining S-pair
• sky blue : S-pair eliminated by division
• white : S-pair eliminated by Buchberger's criterion(criterion 1)
• gray : S-pair eliminated by Gebauer, Möller criterion(criterion 2)
3. When you click the next button, the system automatically selects a S-pair by the current strategy and divides the S-pair. You can select the strategy from "Strategy" in the menubar. When you click the start button, the system switchies to the automatic mode and automatically divides S-pairs till you click the stop button.
4. When you (or the system) eliminate all red balls, the computation stops, and you get Gröbner basis in the bottom window.
This is xdvik 22.84.10
[knxm-icm20...
[LXTerminal]
[ox]
Visualize Buc...
xdvik: manua...
08:43

math-polyglot