

Maxima 5.13.0 <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.
This is a development version of Maxima. The function bug_report()
provides bug reporting information.

This document recreates the Maple document from Honors Calculus II February 01, 2010.

(%i1) `integrate(x^2,x,2,3);`

(%o1) $\frac{19}{3}$

(%i2) `diff(atan(1+x^2),x);`

(%o2) $\frac{2x}{(x^2+1)^2+1}$

(%i3) `diff(x^2,x);`

(%o3) $2x$

(%i4) `2*pi*integrate(y*(2*y-y^2),y,0,2);`

(%o5) $\frac{8\pi}{3}$

(%i6)