

Magma Tutorial

Luis J Dominguez P

Cinvestav

Connecting

Accounts:

- username: cinvesarth11
- password: cinvespw11

Magma “Servers”:

- 148.204.63.246¹
- luisjdominguezp.dyndns-ip.com²

A note on Magma

- Uses a CLI (command line interface)
- Use Ctrl-A for begin of the line
- Use Ctrl-E for end of the line
- Only use Backspace for deleting
- End a sentence with semicolon ;
- exit;
- a,b,c:= MyFunction(d,e);

Alternatively

Connect to: <http://magma.maths.usyd.edu.au/calc/>

Contents

The tutorial contains material related to the *Aritmética Computacional* module.

Part I:

- Introduction to Magma
- Matrices
- Functions, procedures, packages
- Prime numbers, GCD, RSA

¹ also available outside Cinvestav network

² slower machine

Part II

- Polynomials
- Finite fields
- Primitive elements
- Plotting