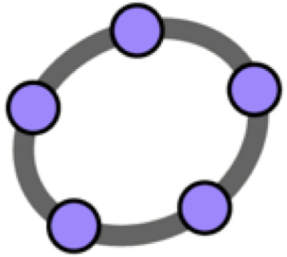
VANIER
CÉGEP/COLLEGE

GeoGebra



in the Physics classroom

Kevin Lenton, Vanier College

@ SALTISE (session D11 3F.37 10h15) - June 4, 2019

Overview

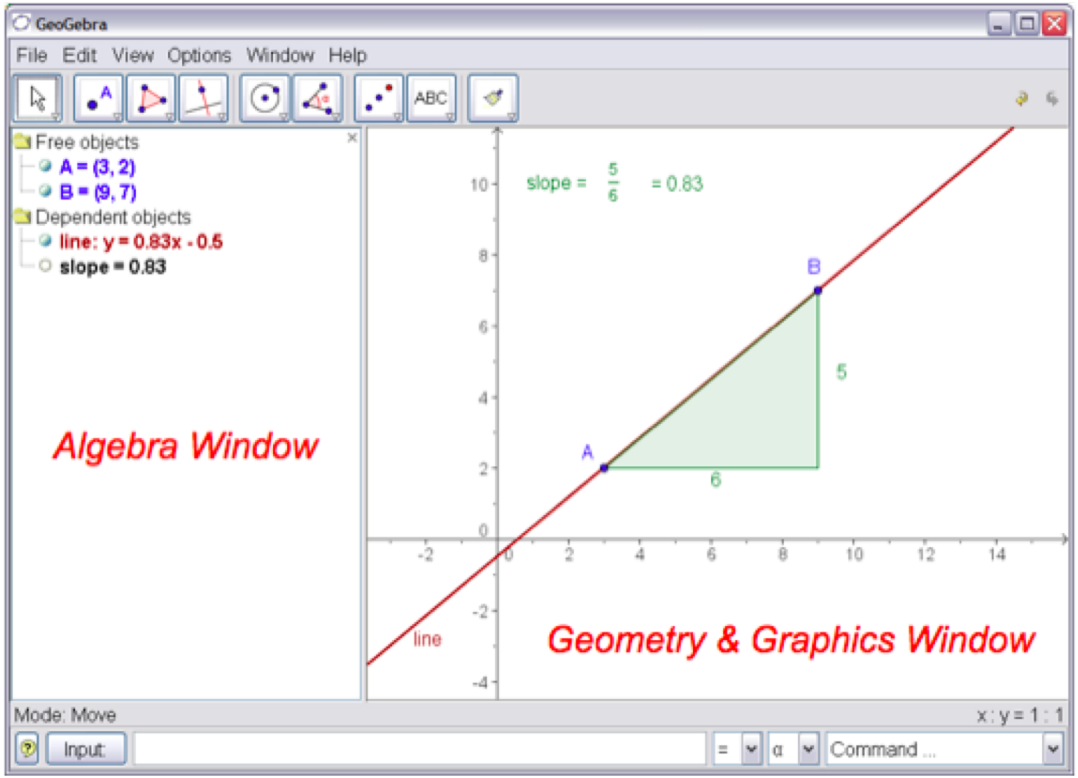
- **Why Geogebra?**
- **Introduction to Geogebra**
- **Trying out Geogebra**
- **Pedagogy**
- **Communicating with Moodle**
- **Other Applications**

Why Geogebra?

- The problem: Cognitive Teacher load in Active Learning Classrooms B429

  - It's free/open license
  - It's a *Graphical* platform for all levels of education that joins geometry, algebra, tables, graphing, statistics and calculus in one easy-to-use package.
  - There's a community.

Geogebra = geometry + algebra



www.geogebra.com

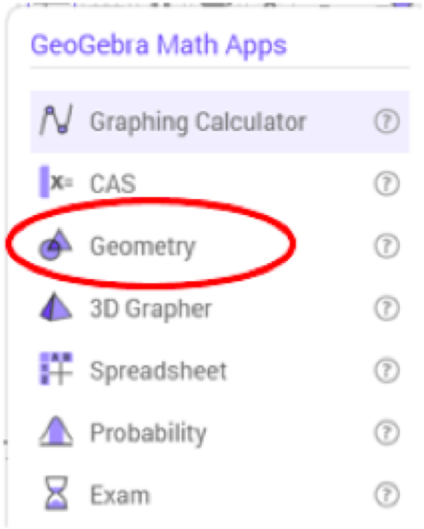
Can download GGB

Can use it online as a web app

Access GeoGebra Tube

Setting up 2:

Select 'Graphing Calculator' or 'Geometry'



www.geobegra.com

Some set-up might be needed:

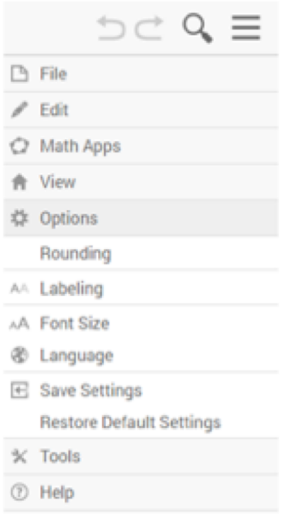
Two menus. On the web app there are two menus on the right-hand side.

The upper one will allow you to load/save files (via 'Files').

'Options' is particularly useful.

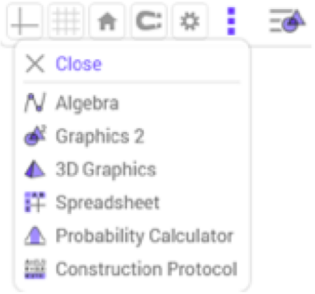
Check that 'Rounding' is set the way you want.

Change 'Labelling' to 'No new objects'?



The lower one allows you to have more than one pane available (eg 'Algebra' and 'Graphics') – click on the three dots for this.

You can make changes to axes, grids and also format objects here.



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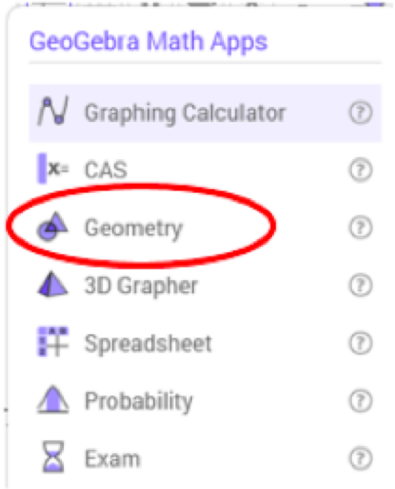

The Toolbar

Using Geometry

The toolbar:

Geogebra + Moodle, Webwork, myDalite

There are different ways of implementing Geogebra into Moodle:
As a quiz type question
As an external plugin

Works as well in WebWork [parameter sharing]
myDalite