

Introduction to Geogebra

Bindu Thirumalai

IT for Change, Bengaluru

<http://www.ITforChange.net>

Talk to a Teacher Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://www.sakshat.ac.in>

23 March 2011



What is Geogebra?

- Free mathematics software



What is Geogebra?

- ▶ Free mathematics software
- ▶ Download from www.geogebra.org



What is Geogebra?

- ▶ Free mathematics software
- ▶ Download from www.geogebra.org
- ▶ Useful for computer aided learning
 - ▶ Interactive
 - ▶ See algebraic expressions of geometric figures
 - ▶ vice versa



What is Geogebra?

- ▶ Free mathematics software
- ▶ Download from www.geogebra.org
- ▶ Useful for computer aided learning
 - ▶ Interactive
 - ▶ See algebraic expressions of geometric figures
 - ▶ vice versa
- ▶ Combines geometry, algebra and calculus
 - ▶ Construct Geometric figures
 - ▶ Enter equations
 - ▶ Deal with variables, vectors



Lesson Outline

- ▶ How to start geogebra
 - ▶ Ubuntu Version 10.04 LTS
 - ▶ Geogebra Version 3.2.40.0



Lesson Outline

- ▶ **How to start geogebra**
 - ▶ Ubuntu Version 10.04 LTS
 - ▶ Geogebra Version 3.2.40.0
- ▶ **The Geogebra Window**
 - ▶ Menu Bar
 - ▶ Tool Bar and Tool View
 - ▶ Graphic View and Algebra View
 - ▶ Input Bar and Commands



Lesson Outline

- ▶ **How to start geogebra**
 - ▶ Ubuntu Version 10.04 LTS
 - ▶ Geogebra Version 3.2.40.0
- ▶ **The Geogebra Window**
 - ▶ Menu Bar
 - ▶ Tool Bar and Tool View
 - ▶ Graphic View and Algebra View
 - ▶ Input Bar and Commands
- ▶ **The Lesson**
 - ▶ Drawing Points, Lines - Parallel, Perpendicular
 - ▶ Measuring Objects
 - ▶ Changing Object Properties
 - ▶ Saving a Geogebra File



Assignment

- ▶ Draw a rectangle by using the following tools
 - ▶ Segment between two points
 - ▶ Parallel Line and Perpendicular Line
 - ▶ Intersect Two Objects
 - ▶ Distance or Length Tool



Assignment

- ▶ **Draw a rectangle by using the following tools**
 - ▶ Segment between two points
 - ▶ Parallel Line and Perpendicular Line
 - ▶ Intersect Two Objects
 - ▶ Distance or Length Tool
- ▶ **Test the rectangle by using the Move tool and moving the free objects**



Acknowledgement

- ▶ **Spoken Tutorial Project is a part of Talk to a Teacher Project**



Acknowledgement

- ▶ **Spoken Tutorial Project is a part of Talk to a Teacher Project**
- ▶ **Supported by the National Mission on Education through ICT, MHRD, Government of India**



Acknowledgement

- ▶ **Spoken Tutorial Project is a part of Talk to a Teacher Project**
- ▶ **Supported by the National Mission on Education through ICT, MHRD, Government of India**
- ▶ **More information:**
<http://spoken-tutorial.org/NMEICT-Intro>



Thank you

