

# Angles and Triangles Basics

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**26 July 2011**



# Lesson Objective

- ▶ **To start Geogebra**
  - ▶ **Ubuntu Version 10.04 LTS**
  - ▶ **Geogebra Version 3.2.40.0**



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- ▶ **To start Geogebra**
  - ▶ **Ubuntu Version 10.04 LTS**
  - ▶ **Geogebra Version 3.2.40.0**
- ▶ **The objective is to verify that the sum of the interior angles of a triangle equals 180 Degrees**

# Lesson Outline

- ▶ **Geogebra tools that will be taught in this tutorial**
  - ▶ **Polygon**
  - ▶ **Angle**
  - ▶ **Insert Text**

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- ▶ **Drawing Pad Properties**
- ▶ **Deleting an Object**

# Writing the Text 1

- ▶ Text that needs to appear as- must be within double quotes “ ” .  
Example: “Angle [ABC] =”

# Writing the Text 1

- ▶ Text that needs to appear as- must be within double quotes “ ” .  
Example: “Angle [ABC] =”
- ▶ For values of Geogebra variables use the variable name as seen in the algebra view without quotes  
Example:  $\alpha$

# Writing the Text 2

- ▶ To do arithmetic with the values use the variables within brackets  $()$ .  
Example:  $(\alpha + \beta + \gamma)$

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- ▶ To do arithmetic with the values use the variables within brackets ().  
Example:  $(\alpha + \beta + \gamma)$
- ▶ To concatenate or connect text use the + sign.  
Example: "Angle [ABC] = " +  $\alpha$

# Teaching Tips

- ▶ Match the colour of the angles in the drawing and text by changing text and angle colour

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- ▶ Angle measure in Radians or Degrees
- ▶ Zoom in Zoom Out

# Assignment

- ▶ **Draw to verify - Exterior angle of a Triangle is equal to the sum of the opposite Interior Angles**
  - ▶ Draw a triangle using the Polygon tool
  - ▶ Extend any one of the sides using the 'Line through two points' tool
  - ▶ Use 'Angle' tool to measure the exterior angle and the opposite interior angles
  - ▶ Use 'Insert Text' tool to display the results
  - ▶ Verify this by using the 'Move' tool and moving the free objects

# Acknowledgement

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



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- ▶ **More information:**  
<http://spoken-tutorial.org/NMEICT-Intro>



# Thank you

