

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



Lesson Objective

- ▶ **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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 - ▶ Polygon
 - ▶ Angle
 - ▶ Insert Text
- ▶ **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

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Example: “Angle [ABC] =”

- ▶ For values of Geogebra variables use the variable name as seen in the algebra view without quotes

Example: α

Writing the Text 2

- ▶ To do arithmetic with the values use the variables within brackets $()$.

Example: $(\alpha + \beta + \gamma)$

Writing the Text 2

- ▶ 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] = " + α

Teaching Tips

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



Teaching Tips

- ▶ Match the colour of the angles in the drawing and text by changing text and angle colour
- ▶ Angle measure in Radians or Degrees



Teaching Tips

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

