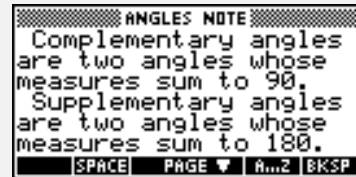


Objectives:

Using the **ANGLES** applet, the student will solve for the missing angle given a pair of complementary angles, a pair of supplementary angles, or a triangle.

Functionality:

When the student presses **START**, the **ANGLES NOTE** will be displayed.



After reading the note, the student should view the **SKETCH** for a visual explanation.



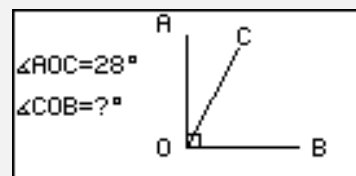
VIEWS will allow the student to select a new problem, guess the missing angle, or see the diagram of the problem.



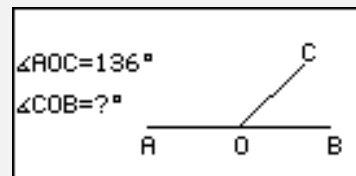
New Problem prompts the student to solve a problem involving complementary angles, supplementary angles, or a triangle.



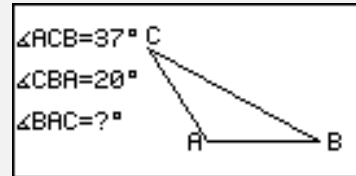
Complementary will display a pair of complementary angles $\angle AOC$ and $\angle COB$. The measure of $\angle AOC$ is randomly generated for each new problem. Use **Guess Angle** from the views menu to enter the measure of $\angle COB$.



Supplementary will display a pair of supplementary angles $\angle AOC$ and $\angle COB$. The measure of $\angle AOC$ is randomly generated for each new problem. Use **Guess Angle** to enter the measure of $\angle COB$.



Triangle displays $\triangle ABC$ with the measures of $\angle ACB$ and $\angle CBA$ defined. The measures of $\angle ACB$ and $\angle CBA$ are randomly generated for each new problem. Use **Guess Angle** to enter the measure of $\angle BAC$.



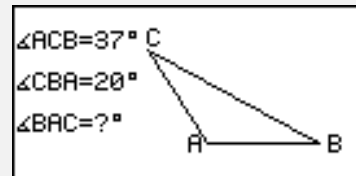
When **Guess Angle** is selected, the student is prompted for the measure of the missing angle.

A screenshot of a dialog box titled "ANGLE ANSWER". It contains the text "ANGLE = 49" with a text input field. Below the input field is the text "ENTER THE MEASURE OF THE ANGLE". At the bottom are three buttons: "EDIT", "CANCEL", and "OK".

After the angle measure is entered, a message box will be displayed notifying the student that their angle measure is too low or too high. If the student enters the correct answer the message box displays **GREAT JOB!**

A screenshot of a dialog box titled "ANGLE ANSWER". It contains the text "ANGLE TOO LOW" in a text input field. Below the input field is the text "ENTER THE MEASURE OF THE ANGLE". At the bottom are three buttons: "EDIT", "CANCEL", and "OK".

If the answer entered is too low or too high, **View Sketch** will display the current problem for the student to rework.



Ideas can be applied to:

7th and 8th Grade Math, Prealgebra, Algebra I, Geometry, Algebra II,
Trigonometry

Programs associated with this applet:

.ANG.TR, .ANG.CO, .ANG.SA, .ANG.GA, .ANG.SE, .ANG.NP, .ANG.ST,
.ANG.SV