

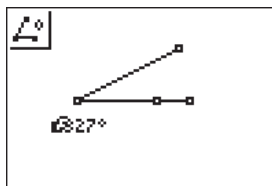
Drawing and Measuring an Angle

Approximate
Total Time:
25 minutes

ACTIVITY OVERVIEW:

In this activity we will

- Draw an angle
- Find the measure of the angle
- Change the angle



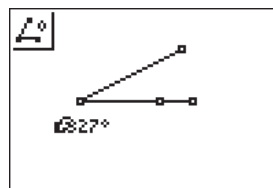
We can use our knowledge of naming angles as we learn about measuring angles with the measurement tool. We can also review classifying angles as we change the angle measure to obtain acute, right, or obtuse angles.

NCTM Geometry Standard: Analyze characteristics and properties of 2- and 3-dimensional geometric shapes and develop mathematical arguments about geometric relationships.



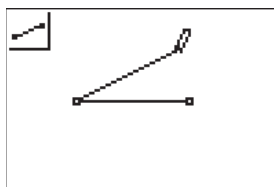
1

Press [APPS]. Move down to the Cabri Jr APP and press [ENTER]. Press [ENTER], or any key, to begin using the application. Press [Y=] for the F1 menu and select **New**. (If asked to **Save changes?** press [◀] [ENTER] to choose "No.")



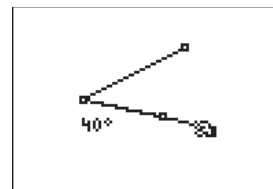
4

Move to last endpoint you marked, and when it is flashing, press [ENTER] to choose that point. Move until the vertex of the angle is flashing and press [ENTER]. The third point defining the angle to be measured can be any point along the other side of the angle (or the endpoint of the segment). Press [ENTER] to select the third point. The angle measure will appear with the *hand*. Move it to a convenient location away from the angle. Press [CLEAR] to turn off the *hand*. Press [CLEAR] again to exit the angle measure tool.



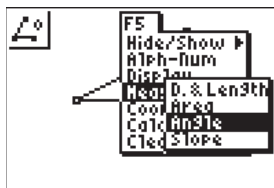
2

Press [WINDOW] for the F2, move to **Segment**, and press [ENTER]. Move to the right and mark an endpoint by pressing [ENTER]. Now move left and mark another endpoint by pressing [ENTER] again. This point will be the vertex of the angle so press [ENTER] to start a new segment with the same endpoint. Move up and right to end the segment with [ENTER]. You should have two segments with a common endpoint.



5

Move the pointer to an endpoint of one of the sides. Press [ALPHA] to activate the hand. Use [▲] [▼] to change the angle measure.



3

Press [GRAPH] for F5 and move to **Measure and Angle**. Press [ENTER]. You will now select 3 points to determine the angle. As in naming angles, the second point selected is the vertex of the angle.



6

To exit the APP, press [Y=] for the F1 menu. Move to **Quit**, then press [ENTER]. (Or you can press [2nd] [MODE] for [QUIT].)



For TI-Navigator™ Users

Use Quick Poll to review naming & measuring angles (e.g. What is the vertex of angle ABC? Give the measure of an angle which is obtuse.). For help, see page 59.