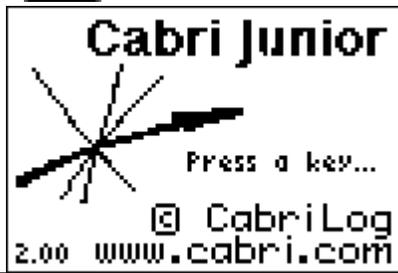
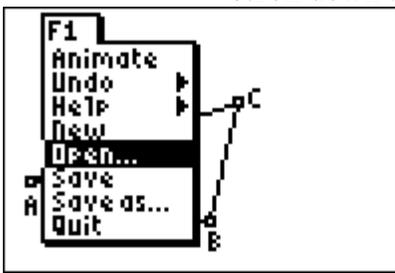
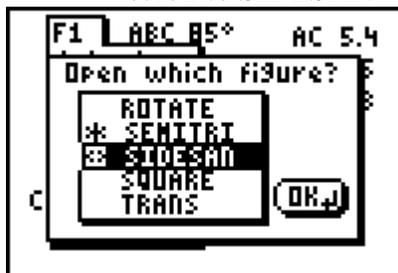
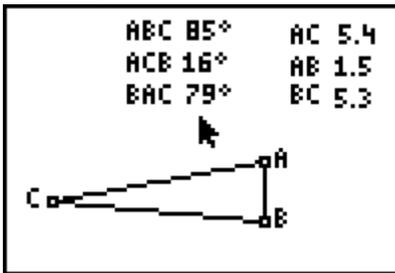
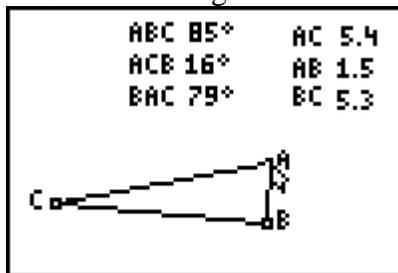
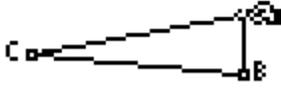


Student Worksheet for G.G. 34

<p>After turning on your handheld press</p> <p><b>APPS</b></p> 	<p>Select CabriJr.</p> <p><b>5</b></p> 
<p><b>Y=</b>  scroll down to Open</p> 	<p><b>ENTER</b> scroll to SIDESAN</p> 
<p><b>ENTER</b></p> 	<p>Now position the cursor over any point. The vertex will become "active" and the cursor will change to a hollow arrow.</p> 

ALPHA

$\angle ABC$   $85^\circ$      $AC$   $5.4$   
 $\angle ACB$   $16^\circ$      $AB$   $1.5$   
 $\angle BAC$   $79^\circ$      $BC$   $5.3$



You have now selected a point, grabbed the point now use your cursor to drag the point and observe what happens on your calculator.

Answer the questions below.

- 1) What are the sides of  $\triangle ABC$ ? \_\_\_\_\_
- 2) What are the sides of  $\angle ABC$ ? \_\_\_\_\_
- 3) Which side is an answer to question 1 but not an answer to question 2? \_\_\_\_\_  
This side is called the side **opposite**  $\angle ABC$ .
- 4) What is the side opposite  $\angle ACB$ ? \_\_\_\_\_
- 5) What is the side opposite  $\angle BAC$ ? \_\_\_\_\_
- 6) As you drag any vertex investigate the largest angle. What is true about the measure of the side opposite this angle? \_\_\_\_\_
- 7) As you drag any vertex investigate the smallest angle. What is true about the measure of the side opposite this angle? \_\_\_\_\_
- 8) Drag any vertex and see if you can make two angles nearly the same measure. What is true about the sides opposite these nearly equal angles? \_\_\_\_\_
- 9) What do you think would be true about the sides opposite two equal angles?  
\_\_\_\_\_
- 10) If you only knew the lengths of the sides of a triangle could you name the largest angle? YES or NO \_\_\_\_\_
- 11) Write a statement that explains your answer to question number 10.  
\_\_\_\_\_
- 12) If you only knew the degree measures of the angles of a triangle could you name the shortest side? YES or NO \_\_\_\_\_
- 13) Write a statement that explains your answer to question number 12.  
\_\_\_\_\_

14) What do you think would be true of the measures of the angles of a triangle if all 3 sides of the triangle were the same measure? \_\_\_\_\_

15) Would you be able to find the measures of each of the angles of the triangle described in question 14? \_\_\_\_\_ If the answer is yes what would be the measure of each angle? \_\_\_\_\_