

Name	
Class	

Problem 1 – Interior angles of a triangle

Press [APPS] and open the Cabri Jr. application. Follow along with your teacher as instructions for creating the triangle are given.

1. Record the measures of the interior angles of your triangle.

∠ABC	∠BCA	∠CAB

- 2. What is the sum of the measures of the three interior angles of the triangle?
- **3.** Does this result change when a vertex of the triangle is dragged?

Save your file as INTANGLE.

Problem 2 – One exterior angle of a triangle

4. Record the measures of the interior angles and exterior angle $\angle BCD$ of your triangle.

∠ABC	∠BCA	∠CAB	∠BCD

5. Make some observations about the exterior angle $\angle BCD$ and its relationship to other angles in the chart.

Before beginning the third part of the activity as instructed by your teacher, save the current file as *EXTANGLE* using the SaveAs option.



Problem 3 – Three exterior angles of a triangle

6. List the measures of the exterior angles of your triangle (one at each vertex).

Exterior ∠ at vertex A	Exterior ∠ at vertex <i>B</i>	Exterior ∠ at vertex C

- 7. Calculate the sum of the three exterior angles.
- 8. Why do you think it is important to use one exterior angle at each vertex?

Before beginning the exercises, save the current file as *EXTANG3* using the SaveAs option.

2.

Exercises

Find the missing angle measures in each of the diagrams below.







