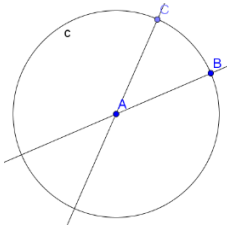


Step 1: Open GeoGebra and hide the axes.

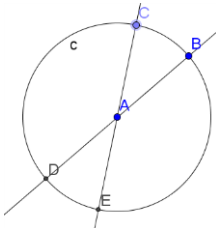
Step 2: Create a line between points A and B.

Step 3: Use the point on object button  to create a point C anywhere on the circle.

Step 4: Create a line between points A and C.




Step 5: Use the intersect button  to create points D and E.

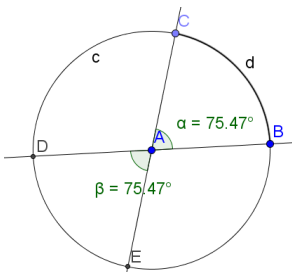


Step 6: Create angle BAC and DAE. What do you notice about their measures? _____

If you move points A, B, or C around, what happens to the central angles? _____

Compare your results with the results of those near you. Write a conjecture about the measure of central angles.

Step 7: Use the circular arc button  to create an arc d, from center A, and points B and C.



Step 8: Create an arc e , between points D and E.

Compare the length of arcs d and e . What do you notice? _____

If you move around points A, B, or C, what happens to the length of arc d and arc e ?

Compare your results with the results of those near you. Write a conjecture about the lengths of intercepted arcs.