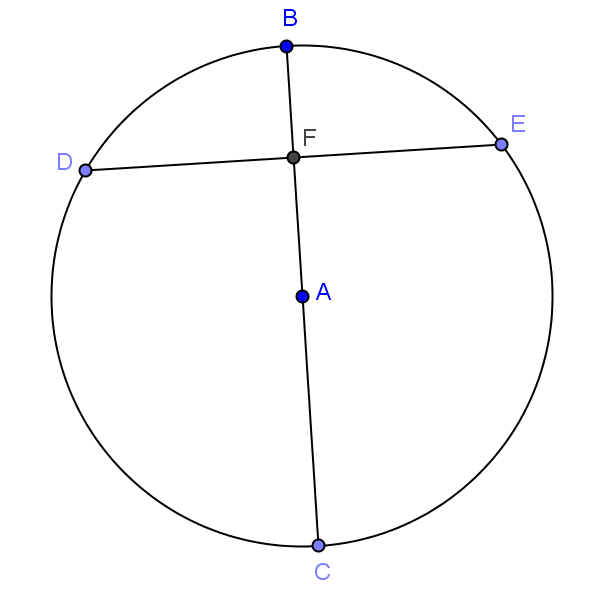
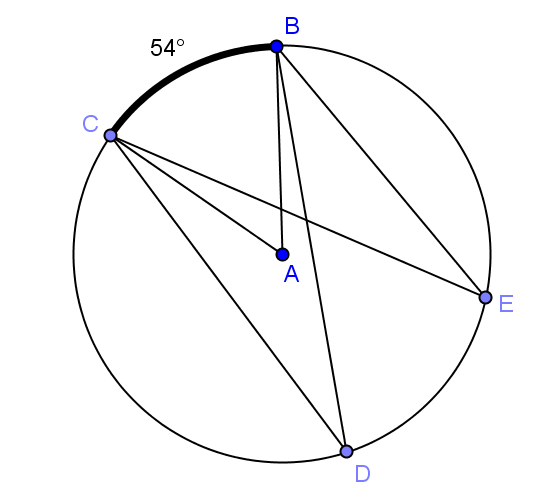
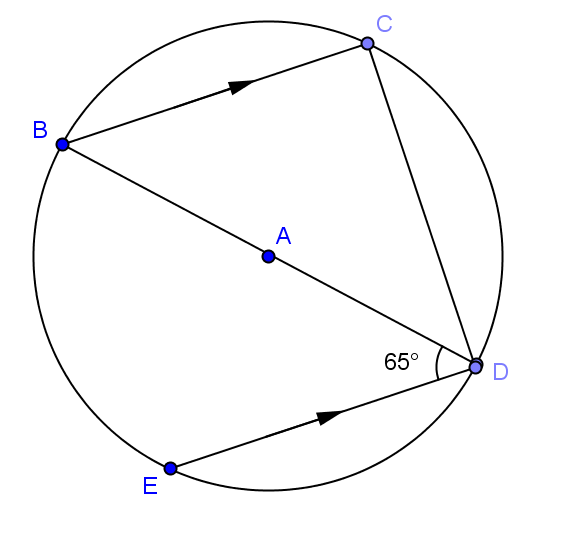
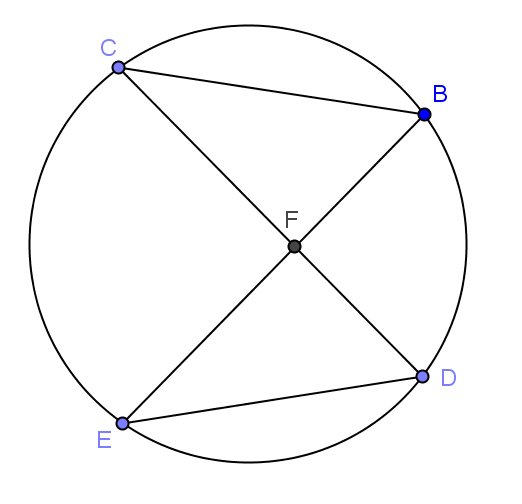
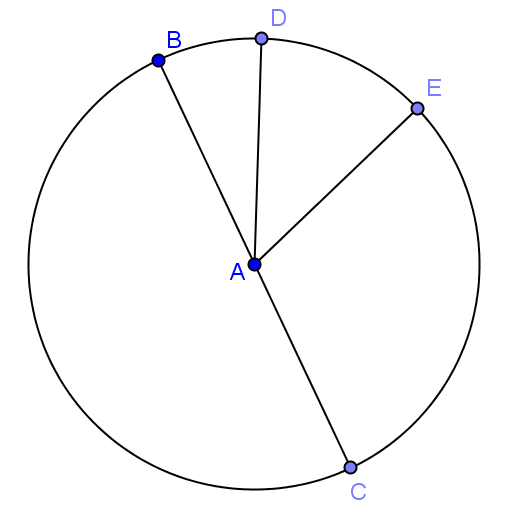
Lesson 8: Arcs and Chords

Classwork

Opening Exercise

Given circle with , , and . Find and . Explain your work.

Exercises

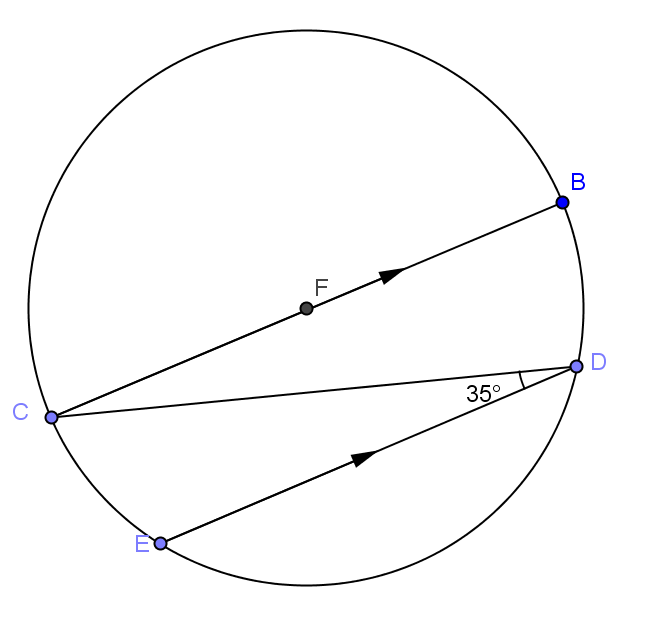
1. Given circle with and , find . Explain your work.
2. If two arcs in a circle have the same measure, what can you say about the quadrilateral formed by the four endpoints? Explain.
3. Find the angle measure of and .
4.  and . Find
5.  is a diameter of circle . . Find

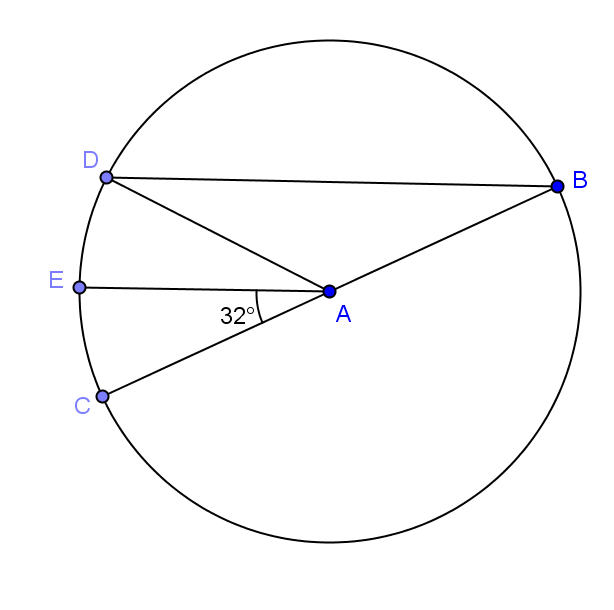
Lesson Summary

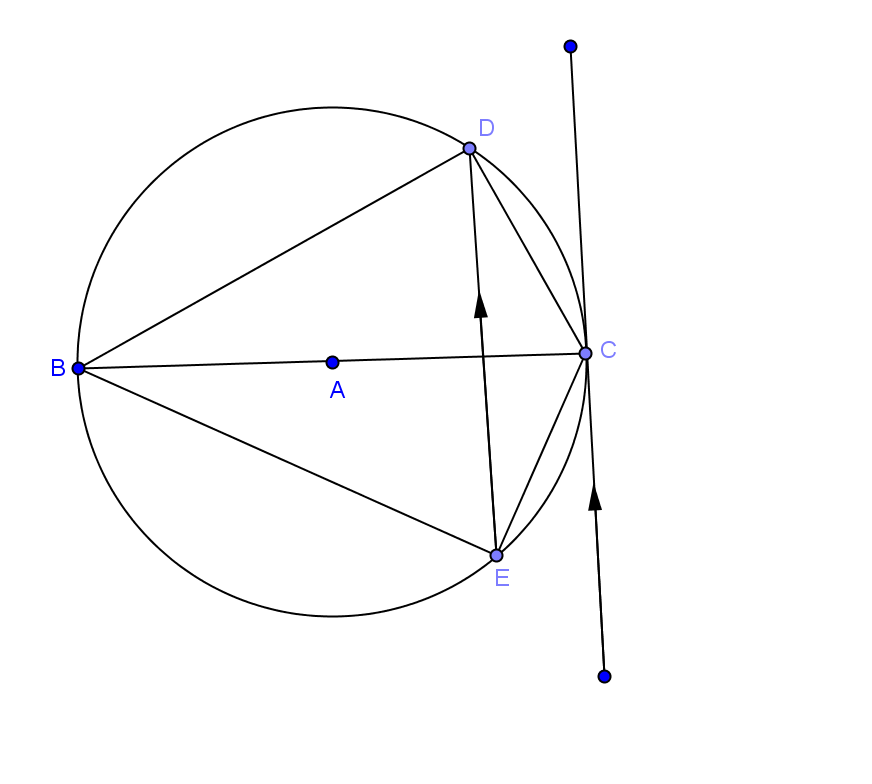
Theorems:

* Congruent chords have congruent arcs.
* Congruent arcs have congruent chords.
* Arcs between parallel chords are congruent.

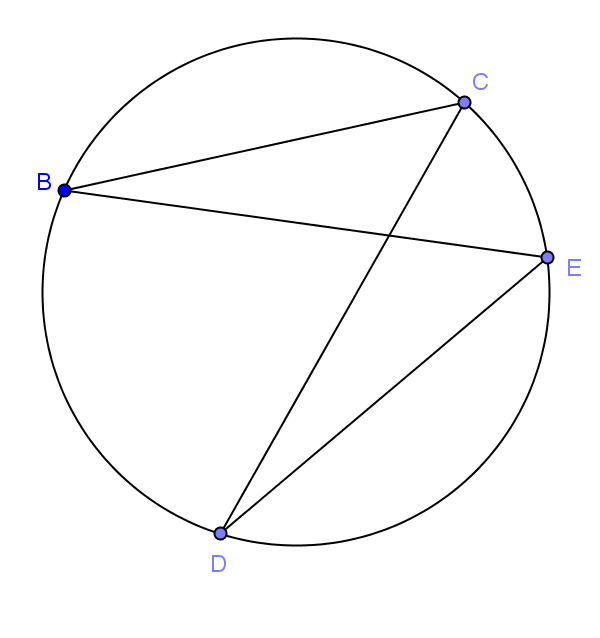
Problem Set

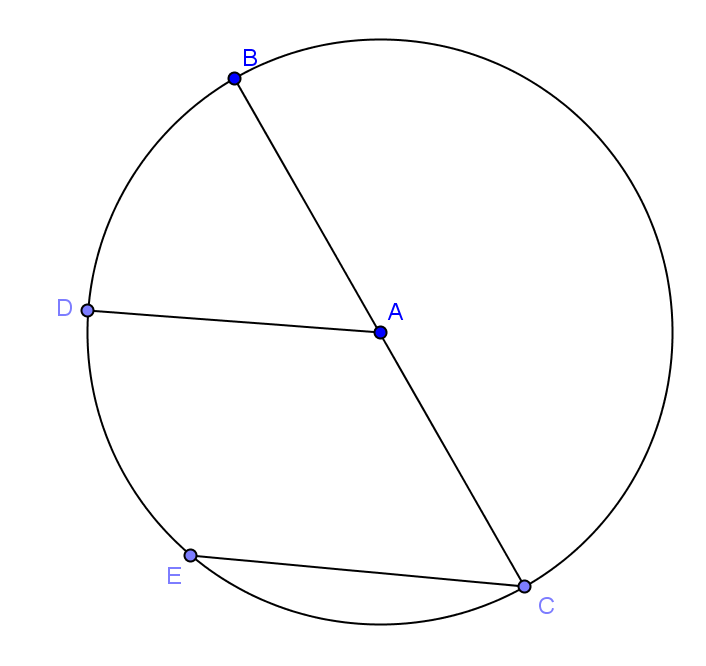


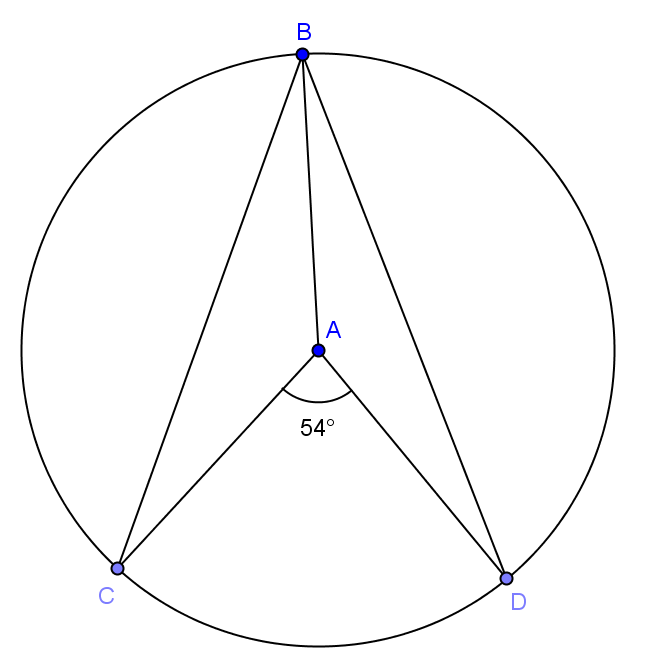
1. Find
2. In circle , is a diameter, , and .
   1. Find .
   2. Find .
3. In circle , is a diameter, 2, and . Find .

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1. In circle , is a diameter and .
   1. Find .
   2. Find .
   3. Find



1. In the circle given, . Prove .
2. Given circle with , show .
3. In circle , is a radius and and . Find . Complete the proof.

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