## Unit 7 Lesson 1: Lines, Angles, and Curves

### 1 Notice and Wonder: Lines and Angles (Warm up)

#### Student Task Statement

What do you notice? What do you wonder?



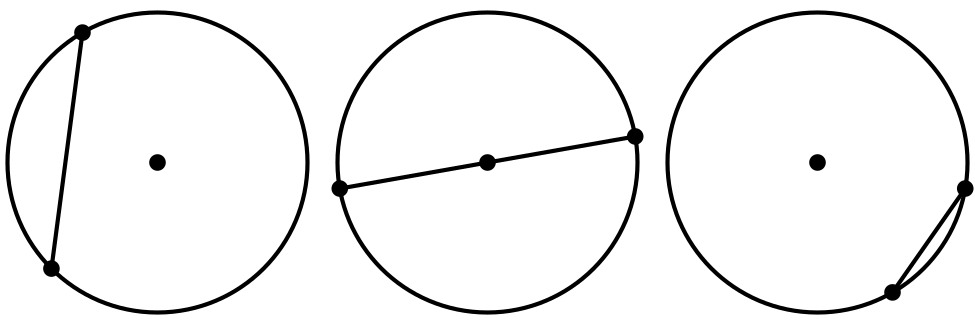
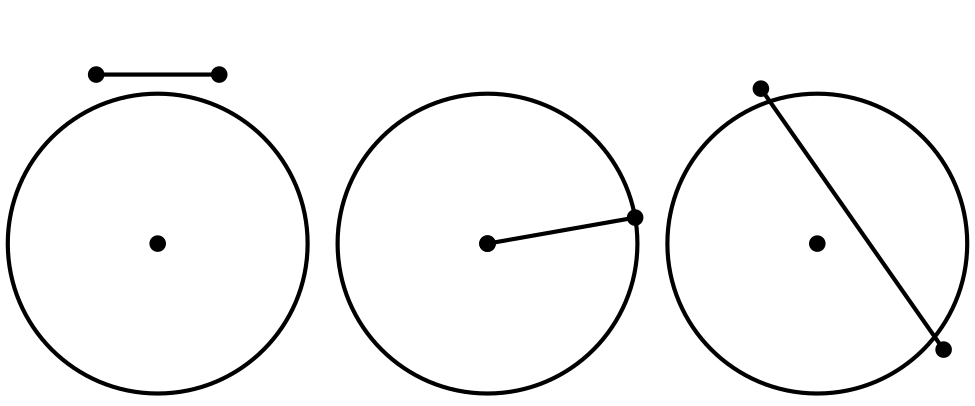




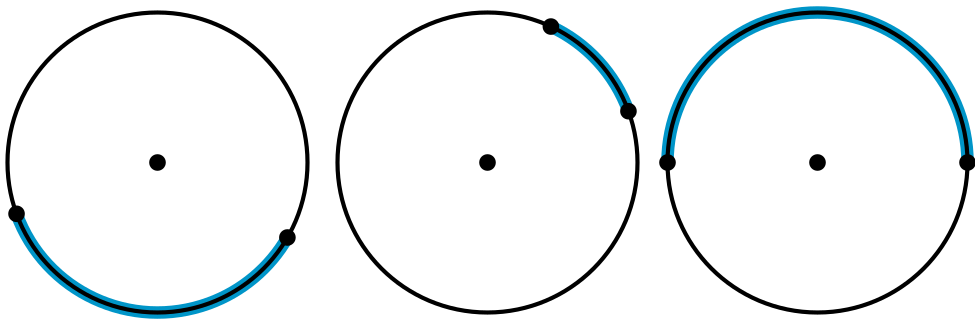
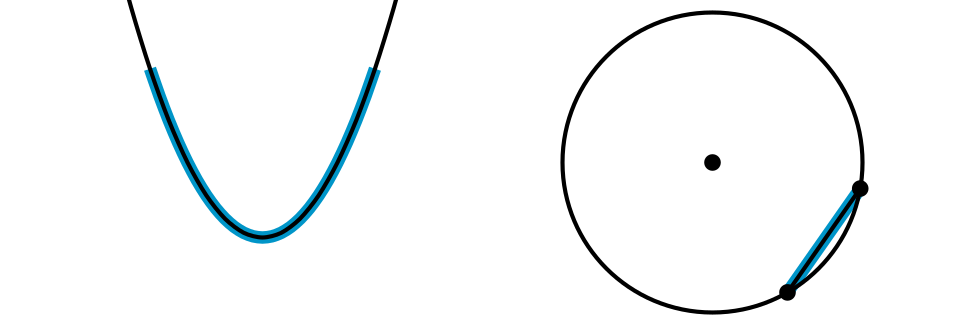
### 2 The Defining Moment

#### Student Task Statement

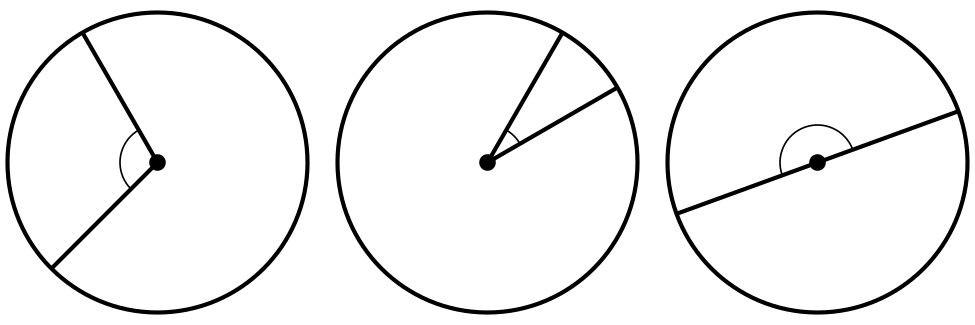
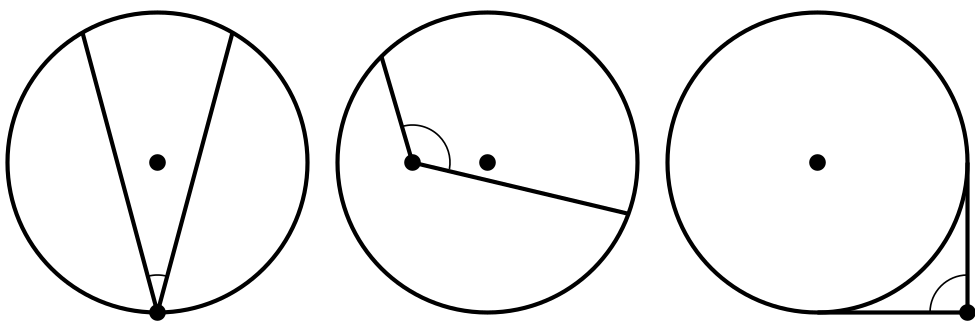
1. The images show some line segments that are **chords** and some segments that are not chords.

* chords
* 
* not chords
* 
* Write a definition of a chord.

1. The images show some highlighted objects that are **arcs**, and some highlighted objects that are not arcs.

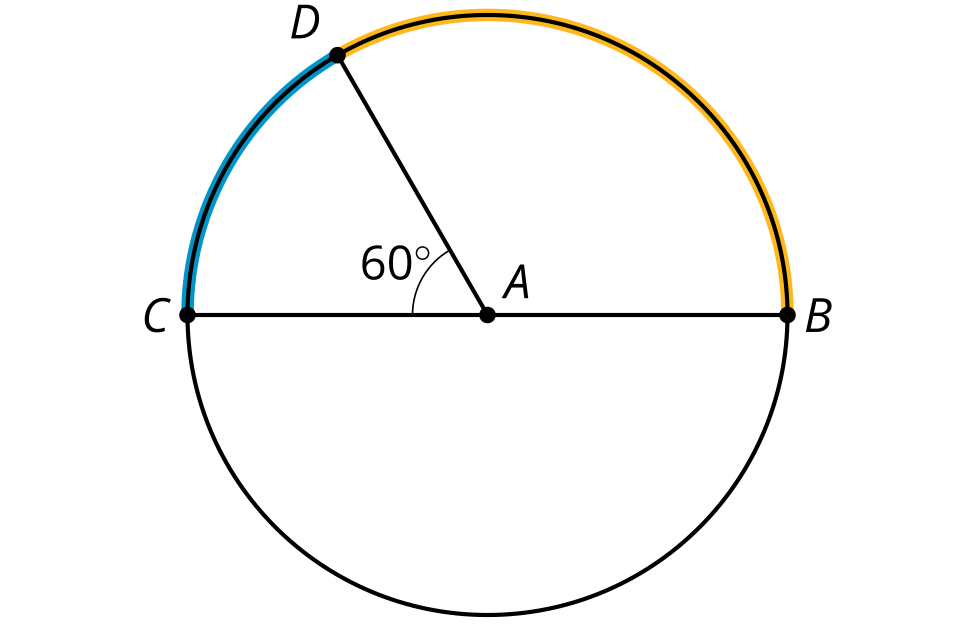
* arcs
* 
* not arcs
* 
* Write a definition of an arc.

1. The images show some angles that are **central angles**, and some that are not.

* central angles
* 
* not central angles
* 
* Write a definition of a central angle.

### 3 Arcs, Chords, and Central Angles

#### Images for Launch



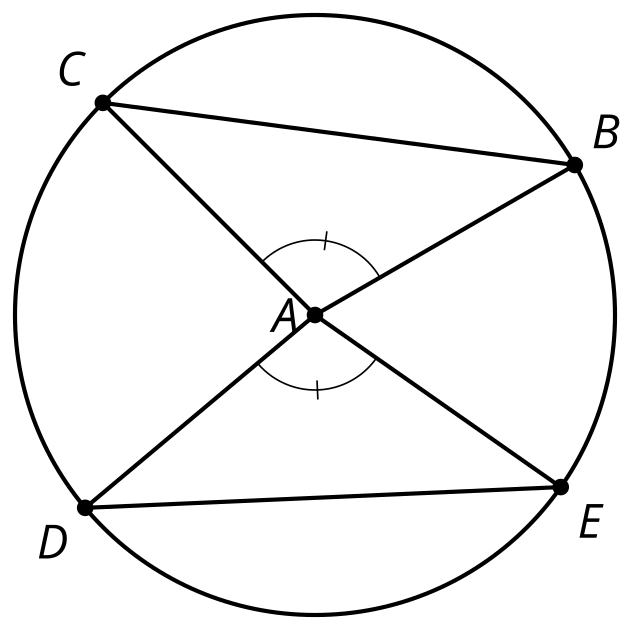
#### Student Task Statement

The image shows a circle with 2 congruent chords.

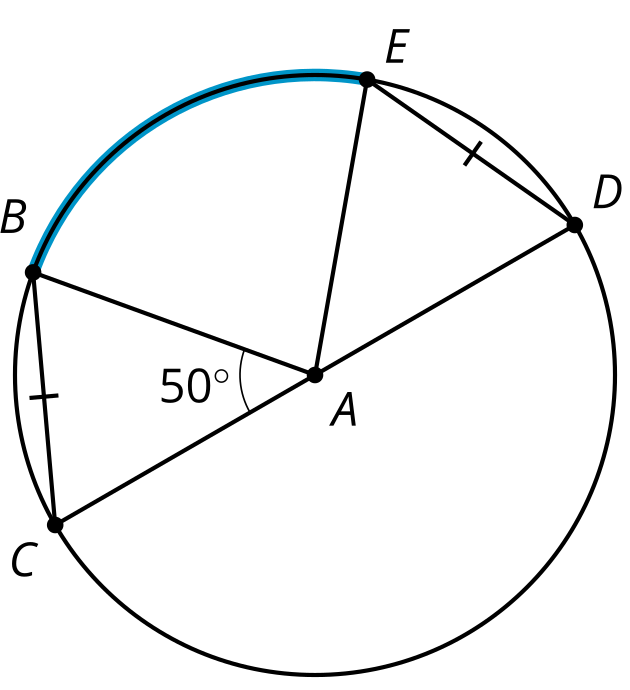


1. Draw the central angles associated with the highlighted arcs from to and to .
2. How do the measures of the 2 central angles appear to compare? Prove that this observation is true.
3. What does this tell you about the measures of the highlighted arcs from to and to ? Explain your reasoning.

#### Activity Synthesis



#### Images for Activity Synthesis





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