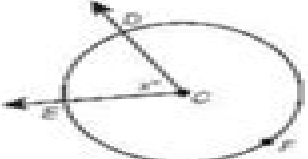
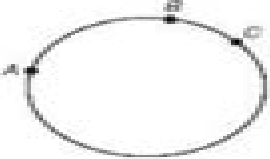
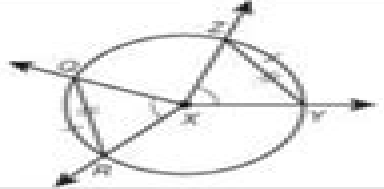


# Arcs Chords and Central Angles

| Key Vocabulary                                                                                       | Diagram                                                                            | Mathematical Symbols                                                  |
|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| A <b>minor arc</b> is equal to the measure of its central angle.                                     |  | $m\widehat{DE} = m\angle DCE = x^\circ$                               |
| A <b>major arc</b> is equal to $360^\circ$ minus the measure of its central angle.                   |                                                                                    | $m\widehat{DFE} = 360^\circ - m\angle DCE$<br>$= 360^\circ - x^\circ$ |
| The measure of an arc formed by two <b>adjacent arcs</b> is the sum of the measures of the two arcs. |  | $m\widehat{ABC} = m\widehat{AB} + m\widehat{BC}$                      |
| <b>Congruent central angles</b> have congruent chords.                                               |  | $\overline{RQ} \cong \overline{YZ}$                                   |
| <b>Congruent chords</b> have congruent arcs.                                                         |                                                                                    | $\widehat{RQ} \cong \widehat{YZ}$                                     |
| <b>Congruent arcs</b> have congruent central angles.                                                 |                                                                                    | $\angle QXR \cong \angle ZXY$                                         |

## Check for Understanding Part 1

- The measure of a central angle is  $60^\circ$ . What is the measure of its minor arc?
- What will be the sum of a central angle's minor arc and major arc?
- Congruent \_\_\_\_\_ have congruent chords.

\_\_\_\_\_

\_\_\_\_\_

Use circle A to find each measure.



4.  $m\widehat{DE}$

5.  $m\widehat{CBE}$

6.  $m\widehat{EBD}$

7.  $m\widehat{CBD}$

8.  $m\angle CAB$

9.  $m\widehat{CD}$

# Worksheet 12 Arcs And Chords

**Camilla Rothe**



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