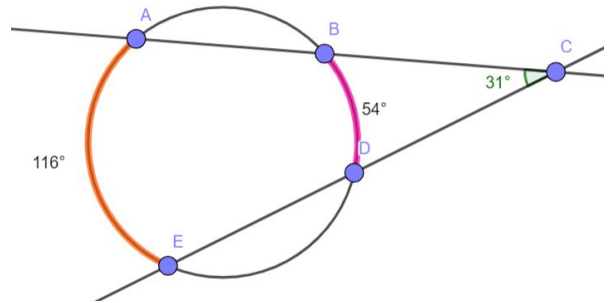


Name: \_\_\_\_\_

SOL G.11a Intersecting Secants

Use the following app for this activity. <https://www.geogebra.org/m/vrnhxf66>

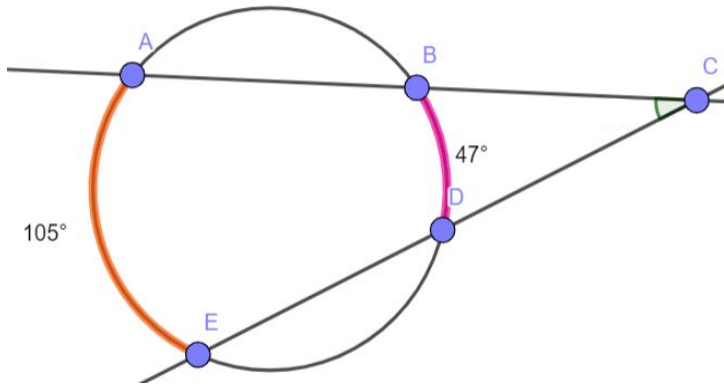


1. What happens to  $m\angle BCD$  when you decrease  $m\widehat{AE}$ ?
2. What happens to  $m\angle BCD$  when you decrease  $m\widehat{BD}$ ?
3. Use the app to fill in the blanks on the table.

$m\widehat{AE}$	$m\widehat{BD}$	What is happening to $m\widehat{AE}$ and $m\widehat{BD}$ that results in $m\angle BCD$ ?	$m\angle BCD$
$100^\circ$	_____		$23^\circ$
$109^\circ$	$47^\circ$		_____
_____	$56^\circ$		$36^\circ$
$84^\circ$	_____		$20^\circ$
$85^\circ$	$33^\circ$		_____
_____	$27^\circ$		$27^\circ$

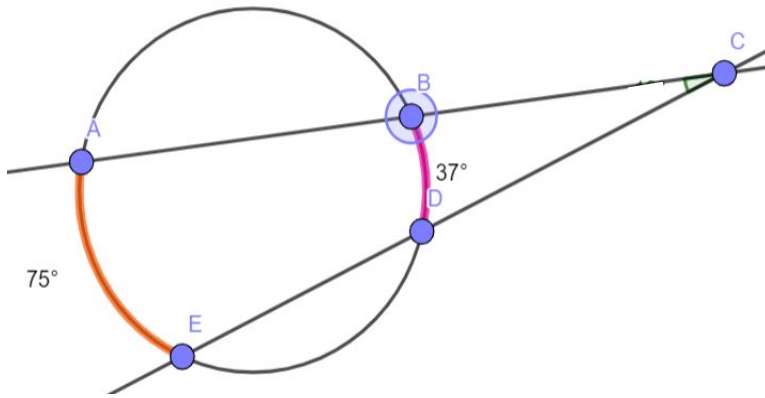
Calculate  $\angle BCD$  based on the information provided. **SHOW YOUR WORK.**

4.



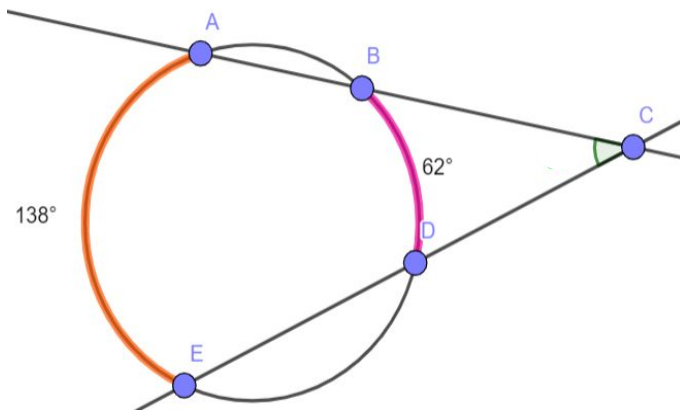
$m\angle BCD = \underline{\hspace{2cm}}$

5.



$m\angle BCD = \underline{\hspace{2cm}}$

6.



$m\angle BCD = \underline{\hspace{2cm}}$

7. When given  $m\angle A$  and  $m\angle D$ , how did you find  $m\angle C$ ?