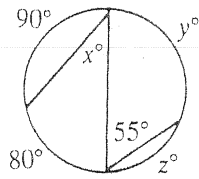


GEOMETRY  
SEC 9.15

**Example 1**

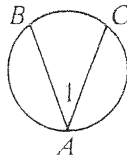
Find the values of  $x$ ,  $y$ , and  $z$ .



**Solution**

Find  $m\angle 1$  if:

1.  $m\widehat{BC} = 70$
2.  $m\widehat{BC} = 84$
3.  $m\widehat{BAC} = 280$

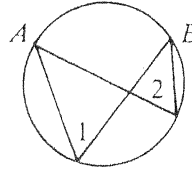


Find  $m\widehat{BC}$  if:

4.  $m\angle 1 = 40$
5.  $m\angle 1 = 36$

**Example 2**

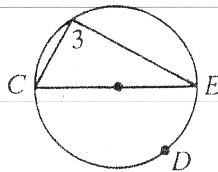
If  $m\widehat{AB} = 120$ , then  $m\angle 1 = ?$   
and  $m\angle 2 = ?$ .



**Solution**

**Example 3**

If  $\widehat{CE}$  is a diameter, then  $\widehat{CDE}$  is a  $?$  and  $m\angle 3 = ?$ .

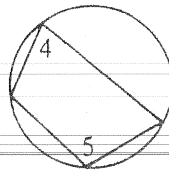


**Solution**

$\widehat{CDE}$  is a  
 $m\angle 3 =$

**Example 4**

If  $m\angle 4 = 75$ , then  $m\angle 5 = ?$ .



**Solution**

Find the values of  $x$ ,  $y$ , and  $z$ . In Exercises 7 and 8,  $O$  is the center of the circle.

