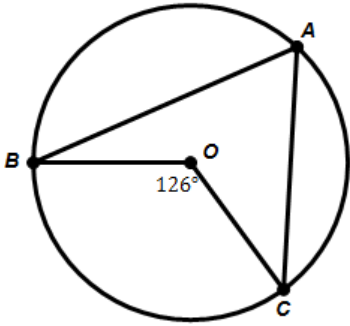


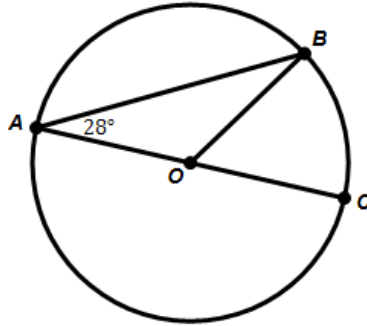
**Homework** 3.2 Inscribed Angles, Quadrilaterals

Find the measure of the indicated arc or angle in Center  $O$ .

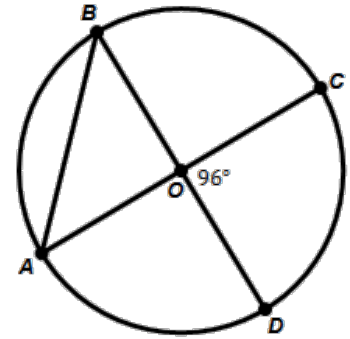
1.  $m\angle BAC$  \_\_\_\_\_



2.  $m\widehat{BC}$  \_\_\_\_\_



3.  $m\angle BAC$  \_\_\_\_\_



Find the of the arc or angle in Center  $O$ , given  $m\widehat{CD} = 108^\circ$  and  $m\widehat{BE} = 100^\circ$ .

4.  $m\angle ABC$  \_\_\_\_\_

8.  $m\angle ABD$  \_\_\_\_\_

5.  $m\angle CED$  \_\_\_\_\_

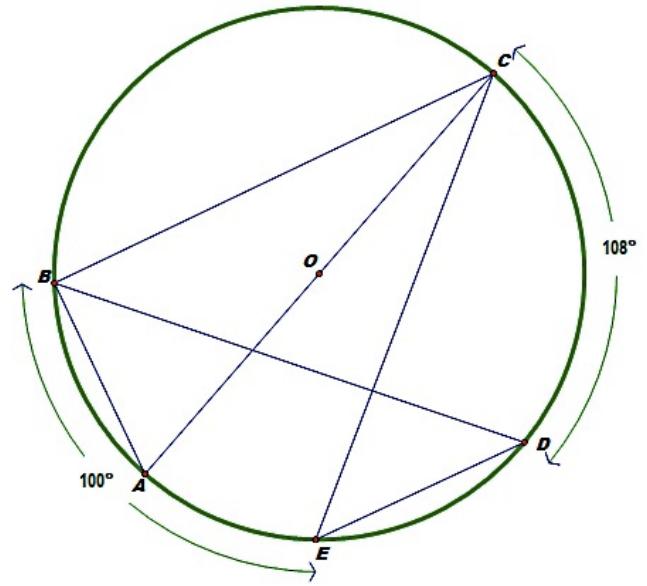
9.  $m\angle BCE$  \_\_\_\_\_

6.  $m\angle BDE$  \_\_\_\_\_

10.  $m\widehat{AD}$  \_\_\_\_\_

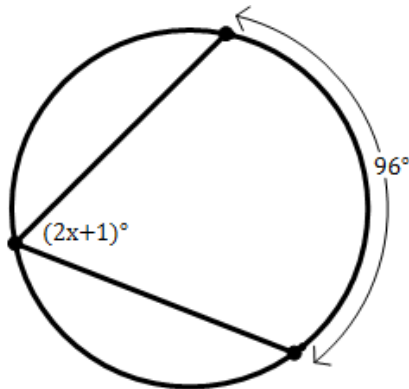
7.  $m\angle CBD$  \_\_\_\_\_

11.  $m\widehat{ABC}$  \_\_\_\_\_



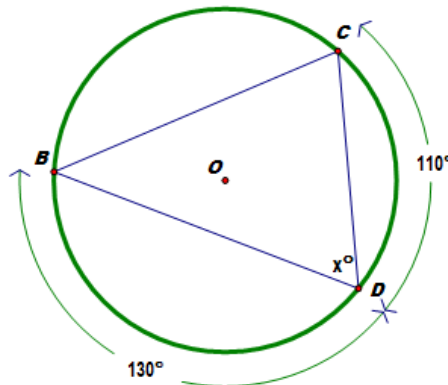
Find the value of  $x$ .

12.



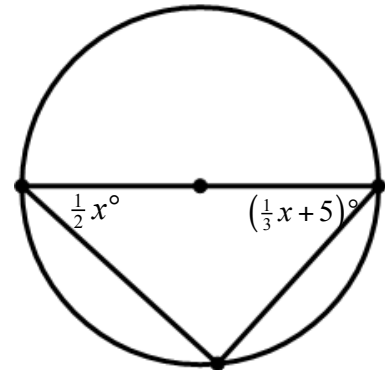
$x =$

13.



$x =$

14.



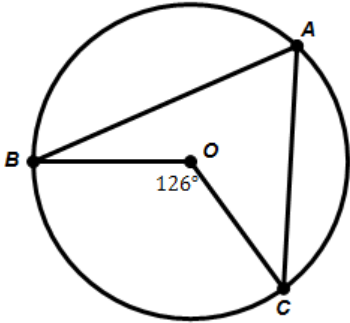
$x =$

Homework 3.2 Inscribed Angles, Quadrilaterals

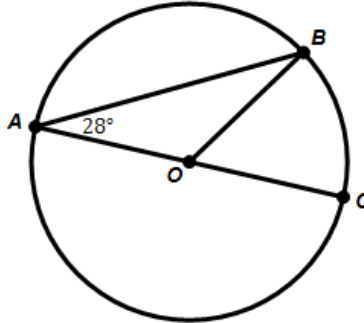
Solutions

Find the measure of the indicated arc or angle in Center  $O$ .

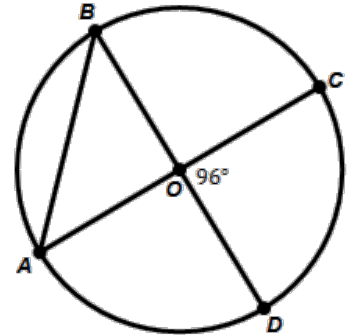
1.  $m\angle BAC$  63°



2.  $m\widehat{BC}$  56°



3.  $m\angle BAC$  42°



Find the of the arc or angle in Center  $O$ , given  $m\widehat{CD} = 108^\circ$  and  $m\widehat{BE} = 100^\circ$ .

4.  $m\angle ABC$  90°

8.  $m\angle ABD$  54°

5.  $m\angle CED$  54°

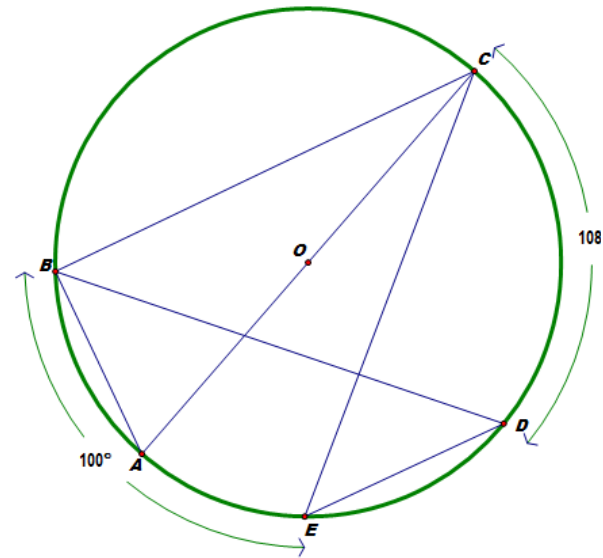
9.  $m\angle BCE$  50°

6.  $m\angle BDE$  50°

10.  $m\widehat{AD}$  72°

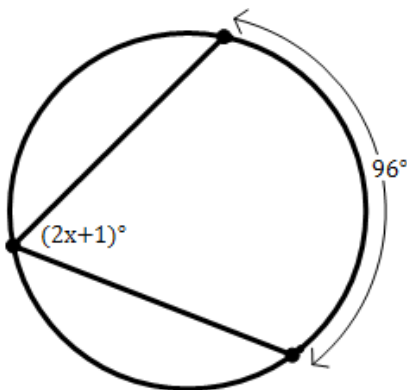
7.  $m\angle CBD$  36°

11.  $m\widehat{ABC}$  180°



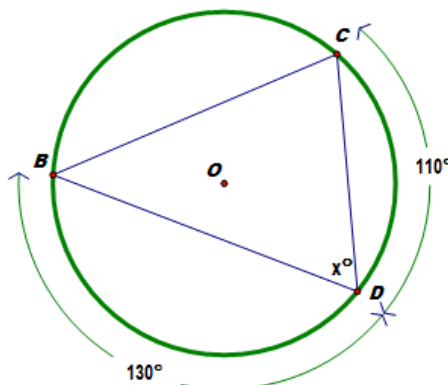
Find the value of  $x$ .

12. .



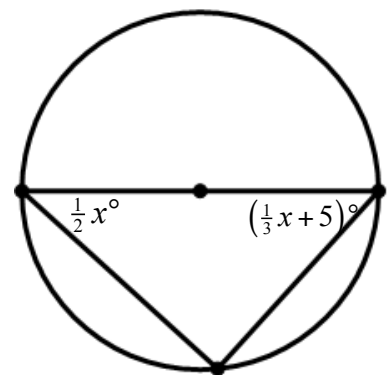
$x = 23.5$

13.



$x = 60$

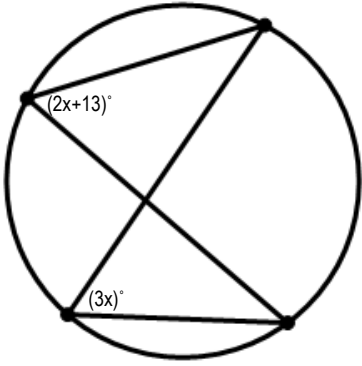
14.



$x = 102$

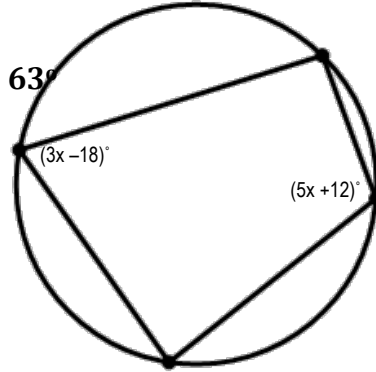
17. .

$x =$



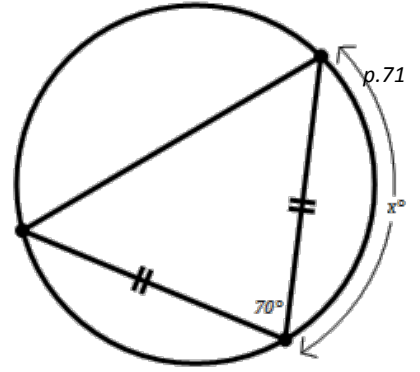
16. .

$x =$

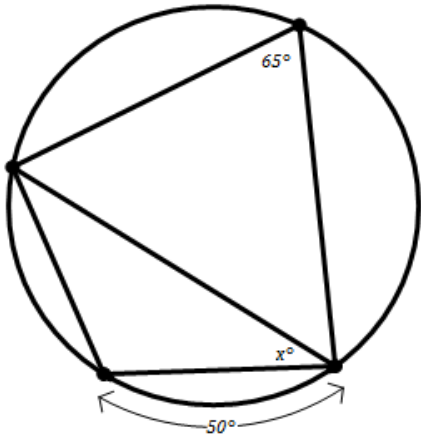


15. .

$x =$

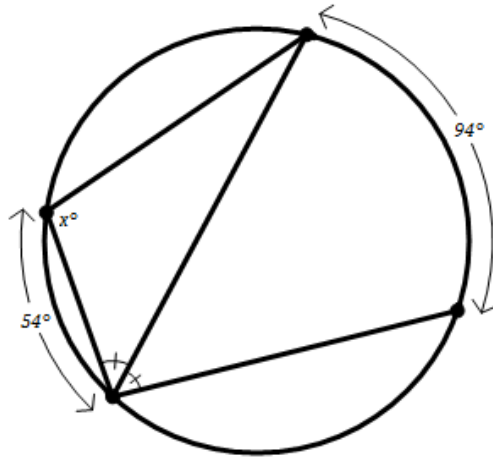


18. .



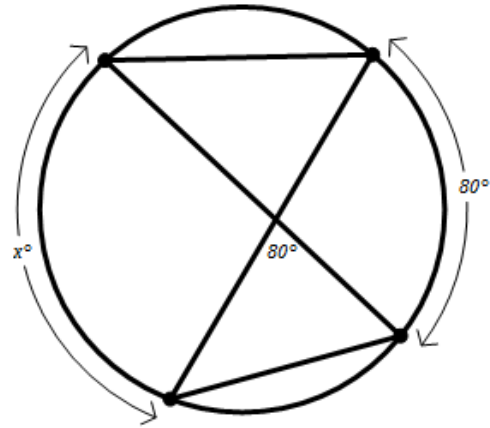
$x =$

19.



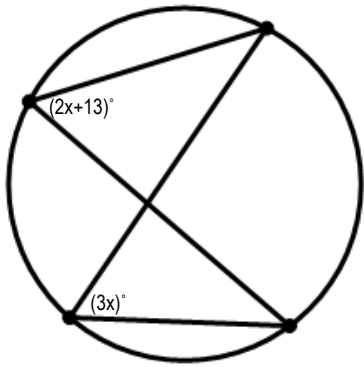
$x =$

20. .



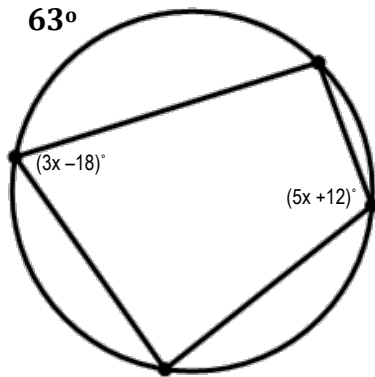
$x =$

15. Find the value of  $x$ .



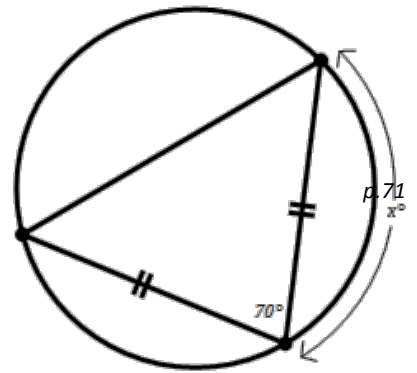
$x = 13$

16. Find the value of  $x$ .



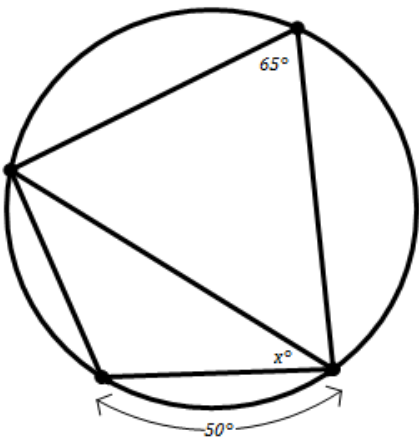
$x = 23.25$

17. Find the value of  $x$ .



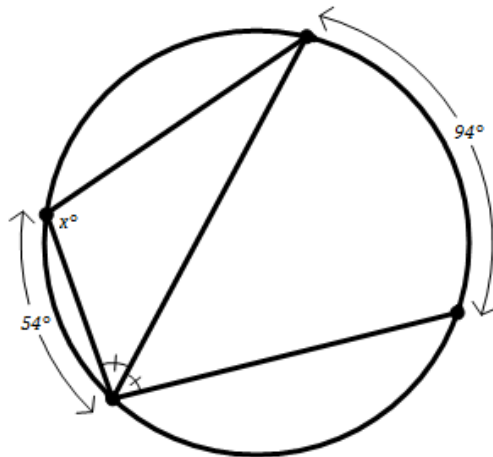
$x = 110^\circ$

18. Find the value of  $x$ .



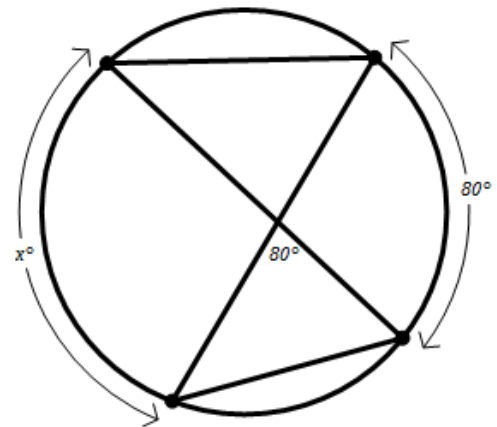
$x = 40$

19. Find the value of  $x$ .



$x = 106$

20. Find the value of  $x$ .



$x = 120$