Unit 5B Review - Circles   NAME _____
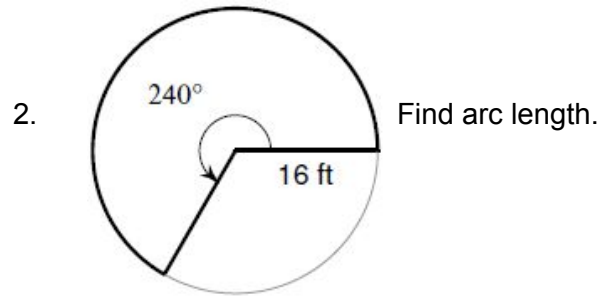
Arc Length and Area of a Sector
Find each requested measurement.

1. central angle = 67°, radius = 3 m
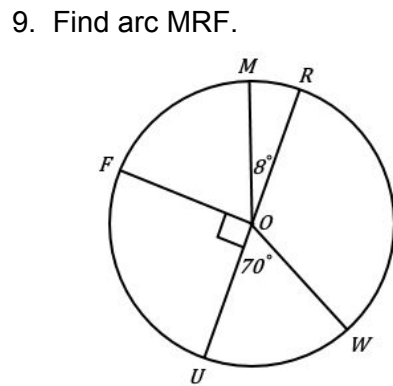   Find area of sector.
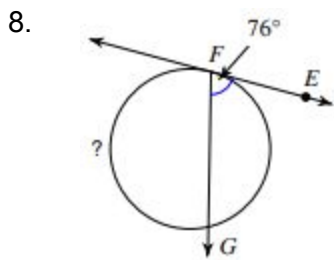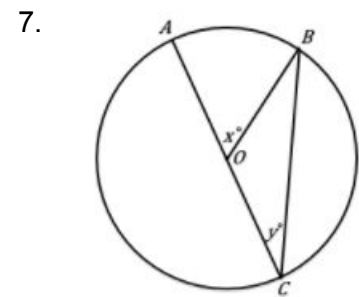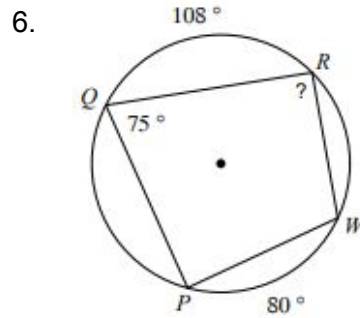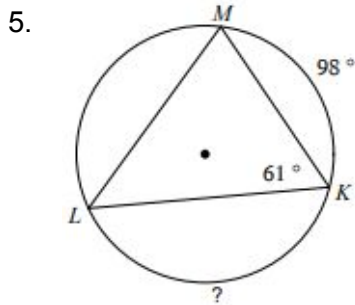
2.

240°
16 ft
Find arc length.

3. arc length = 17 in, radius = 4 in
   Find central angle in radians.

4. area of sector = 34 cm², central angle = $\frac{\pi}{6}$
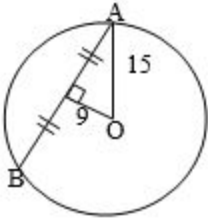   Find radius.

Inscribed Angles
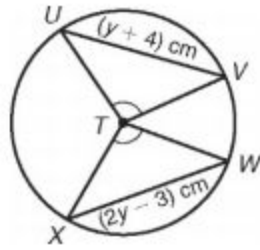*Solve for each indicated measurement.*

5.

M
98°
61°
K
L
?

6.

108°
R
Q
75°
?
W
P
80°

7.

A
B
x°
O
y°
C

8.

76°
F
E
?
G

9. Find arc MRF.

M
R
F
8°
O
70°
W
U

Chords

Solve for each indicated measurement.

10. Find length of AB

15

9

11.

U
(y + 4) cm
V
T
W
(2y – 3) cm
X

12.

S
R
4x°
(3x + 22)°
T
Q

13.

3x + 2
A
B
6
Q
D
6   22
C

14.

15
E
A
F
4x + 1
Q
B
x + 8
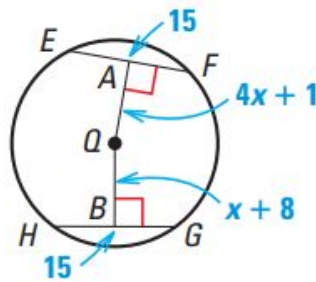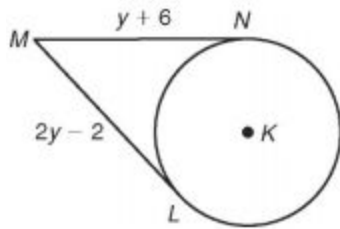H
G
15
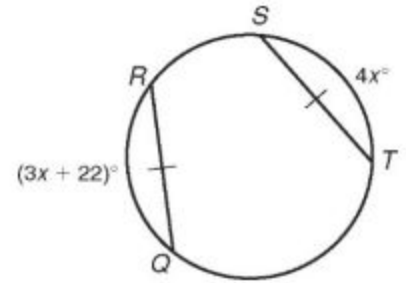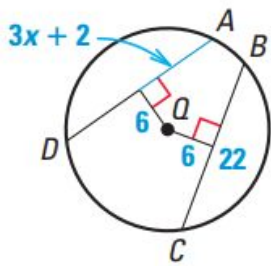
Tangents

Solve for the variable.

15.

M   y + 6   N
2y – 2
• K
L

16.

B
r   4
C   r   2   A

17. Find perimeter.

13
25
4.6
21.8
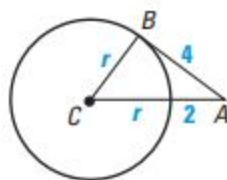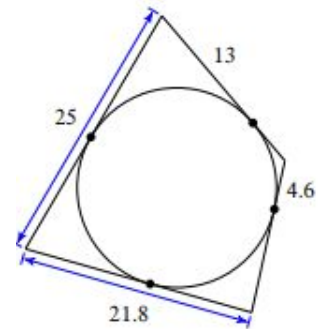
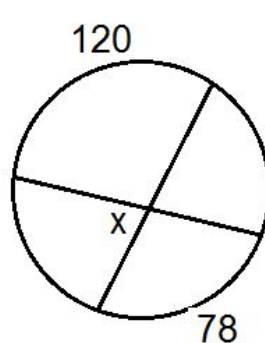## Angles Formed By Secants, Tangents, and Chords

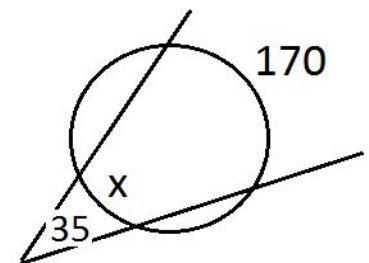*Solve for x.*

18.
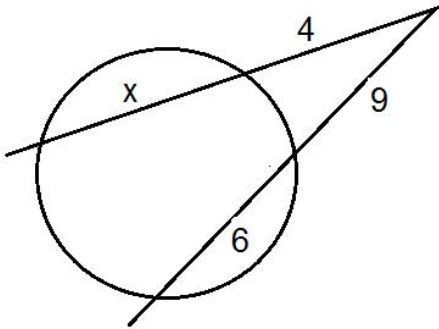
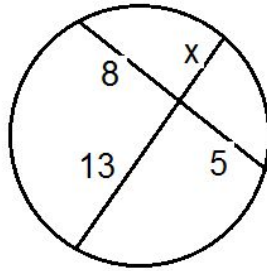

53
48   x

19.

120
x
78

20.

170
x
35
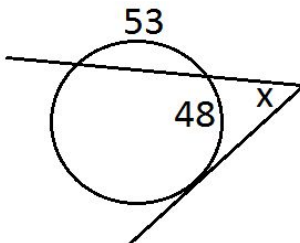
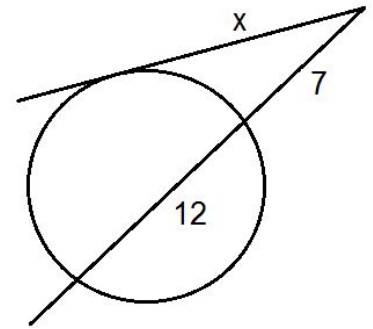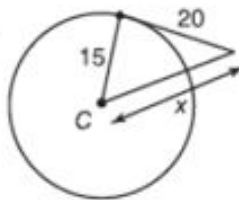## Lengths Formed By Secants, Tangents, and Chords
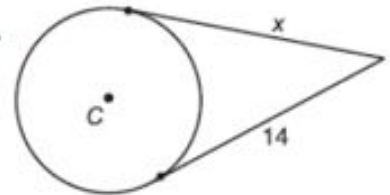
Solve for x.

21.

22.

23.

For each in circle C, find the value of x. Assume segments that appear to be tangent are tangent.

6.

7.

8.

9.

10.