Use ⊙P to find the arc measure.

1.

(3x + 26)°

mBC = ?
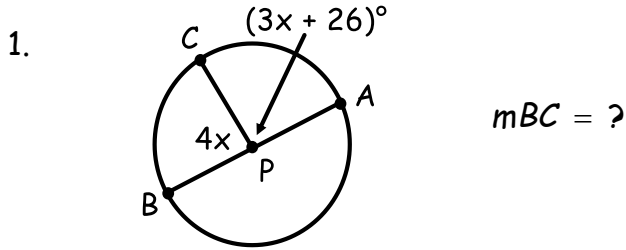
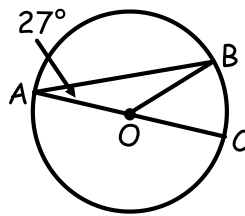Find the measure of the indicated arc or angle in ⊙O.

2. m∠BAC = _?_

132°

3. m BC = _?_

27°

4. m∠BAC = _?_

94°
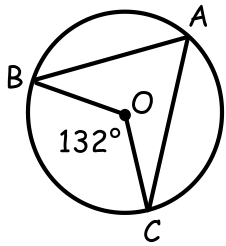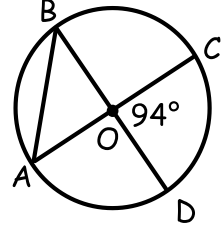
Find the value of each variable.

5.

104°

x°

6.

(2x + 13)°

(3x)°

7.

80°   74°

x

8.

22°

x°

125°
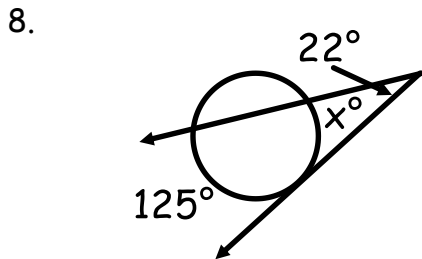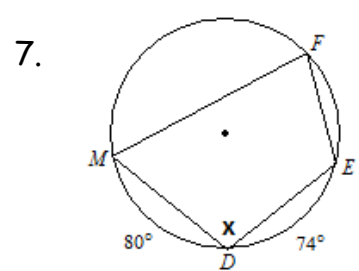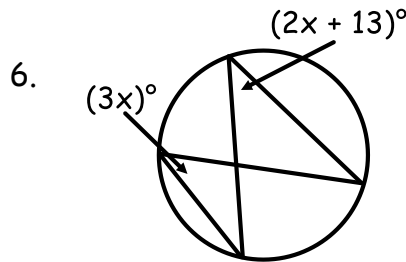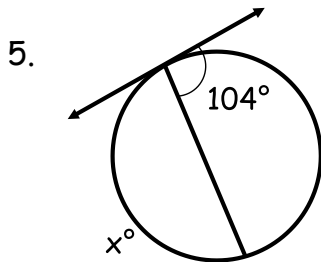
9. Find the **area** of the shaded region.
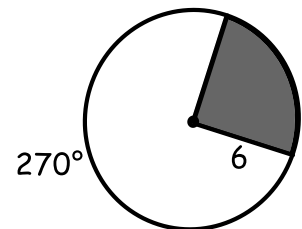
10. Find the **arc length** of the shaded region.

270°   6

11. The area of one piece of pizza is 9π in^2. The pizza is cut into eighths. Find the radius of the pizza pie.
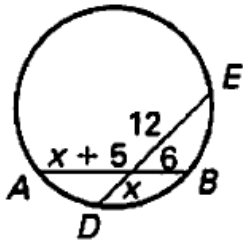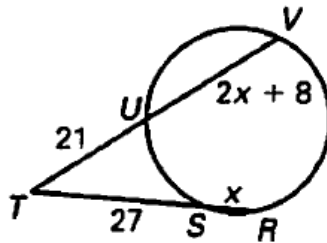
12. Determine the radius of the circle with a circumference of 26π cm. Use the radius to then find the area.

13. A sprinkler system can shoot water at a distance of 15 yards. It is set up to rotate 240 degrees. How much area of the yard is covered by the sprinkler?

14. The clock in our classroom has a radius of 9 inches. If it's 4:00, find the arc length and area of the sector for this time.
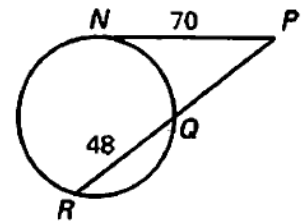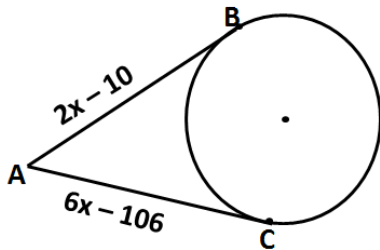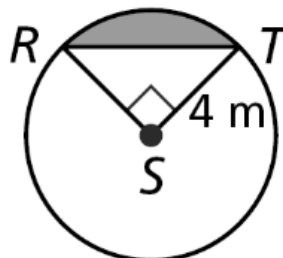
15. Find AB

12
$x + 5$ 6
E
A x B
D

16. Find TV

V
$2x + 8$
U
21
T   27   S x R

17. Find PQ

N   70   P
48   Q
R

18. Find AB

B
$2x - 10$
A
$6x - 106$
C

19. Find the area of the shaded region

R   T
4 m
S

20. Find length of $\overset{\frown}{FG}$

F
134°   8 cm
E
G