Name $\qquad$ Unit 7 Study Guide

In 1-2, use $\odot P$ to find the value of $x$. Then, find the arc measures.
1.


$$
\begin{aligned}
& m B C=? \\
& m A C=?
\end{aligned}
$$

2. 



$$
m A C=?
$$

$$
m B D=?
$$

Find the measure of the indicated arc or angle in $\odot O$.
3. $m \angle B A C=$ ?

4. $m B C=$ ?

5. $m \angle B A C=?$


Find the value of each variable.
6.

(2x+13)
7.

8.


10.

11.

12. Find the area and arc length of the shaded region.

13. The area of one piece of pizza is $9 \pi \mathrm{in}^{2}$. The pizza is cut into eighths. Find the radius of the pizza pie.
14. Determine the radius of the circle with a circumference of $26 \pi \mathrm{~cm}^{2}$. Use the radius to then find the area.
15. 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?
16. 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.
17. Find $A B$

18. Find TV

19. Find $P Q$


21. Solve for $x$

22. Find $A B$

23. Find the area of the sector

24. Find the area of the shaded region

25. Find $\mathrm{m} \overparen{\boldsymbol{F G}}$


