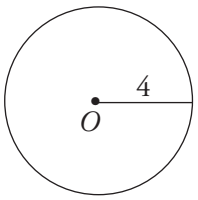
Drill 3

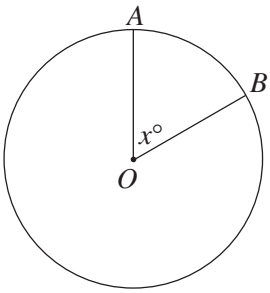
Answers can be found in Part IV.



a. What is the area of the circle above with center O? _____

b. What is its circumference? _____

16



The circle shown above has its center at O. If $x = 60$ and the length of minor arc AB is 2π, what is the area of circle O?

A) 36π

B) 12π

C) 6π

D) 6

18

A circle with center O has diameter $\overline{AB}$. Segment $\overline{AC}$ is tangent to the circle at point A and has a length of 5. If the area of the circle is 36π, what is the perimeter of triangle ABC?

A) 15

B) 25

C) 30

D) 60

12

What is the center of a circle with equation $x^2 + y^2 - 2x + 8y + 8 = 0$?

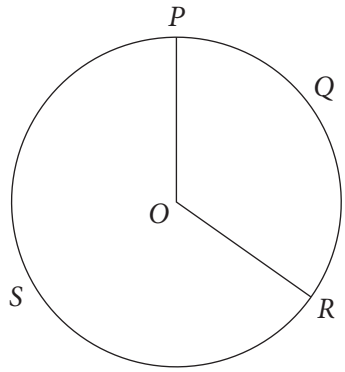
A) (–1, 4)

B) (1, –4)

C) (–2, 8)

D) (2, –8)

29



Note: Figure not drawn to scale.

Major arc *PSR* is $\frac{4}{3}$ the length of minor arc *PQR*. The length of major arc *PSR* is 6π units. What is the radius of the circle?

	⟋	⟋	
.	.	.	.
	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9