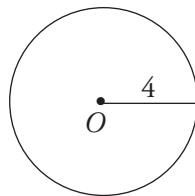


Drill 3

Answers can be found in Part IV.



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

b. What is its circumference? _____

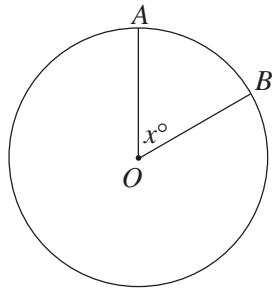
12

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) $(2, -8)$



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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



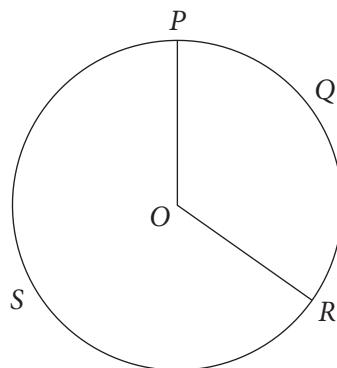
18

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



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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?

	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			