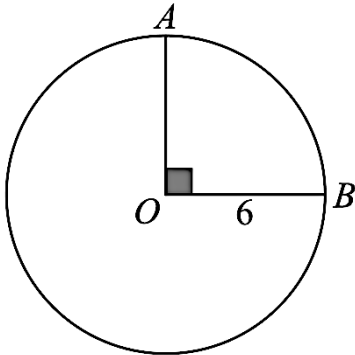
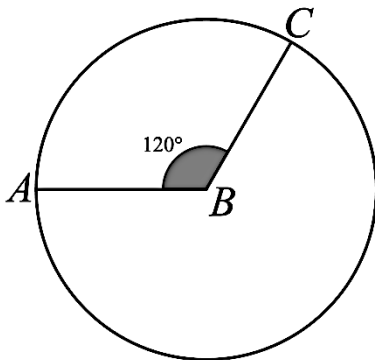


Arc Length

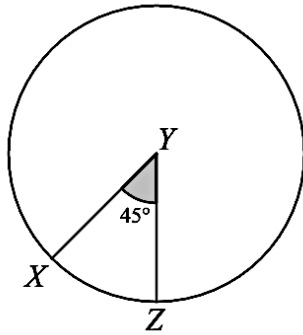
Non-Calculator: Multiple Choice



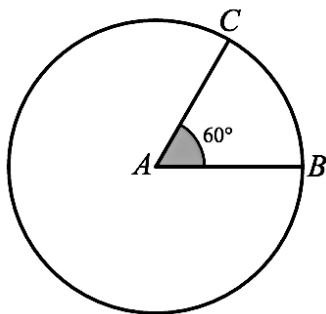
1. The circle above with center O has a radius of 6. What is the length of the minor arc AB ?
A) 3π
B) 6π
C) 12π
D) 36π
2. A circle has an area of 49π . What is the circumference of the circle?
A) 7π
B) 14π
C) 22π
D) 98π



3. In the circle above with center B , angle ABC has a measure of 120° . If the radius is 12, what is the arc length of AC ?
A) 3π
B) 4π
C) 8π
D) 12π

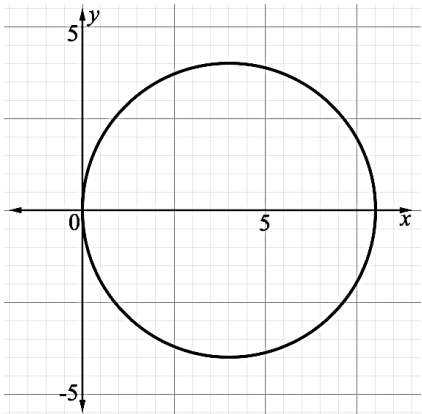


4. If the circle above with center Y has a circumference of 24, what is the arc length of XZ ?
- A) 3
B) 6
C) 8
D) 12
5. What is the length of a circle's radius if half of its circumference is 9π ?
- A) 3
B) 6
C) 9
D) 18
6. What is the ratio of radius to circumference of a circle with diameter 24 cm?
- A) $2 : \pi$
B) $4 : 6\pi$
C) $1 : 2\pi$
D) $3 : 4\pi$



7. Given the circle above with radius $\overline{AB} = 6$, and $m\angle CAB = 60^\circ$, find the length of arc BC .
- A) π
B) 2π
C) 3π
D) 6π

8. The diameter of a circle is 20. What is one quarter of this circle's circumference?
- A) 5
 - B) 10
 - C) 5π
 - D) 10π



9. The center of the circle above is located at the $(4, 0)$. What is the circumference of the circle?
- A) 8
 - B) 16
 - C) 8π
 - D) 16π