

Angles, arc lengths, and trig functions

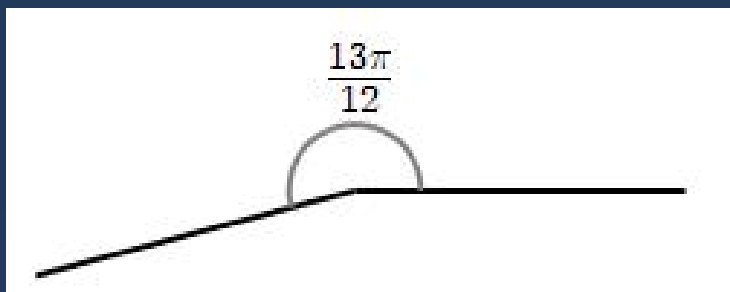


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1. Which of the following is the measure of the above angle in degrees?

- A. 180°
- B. 195°
- C. 210°
- D. 225°

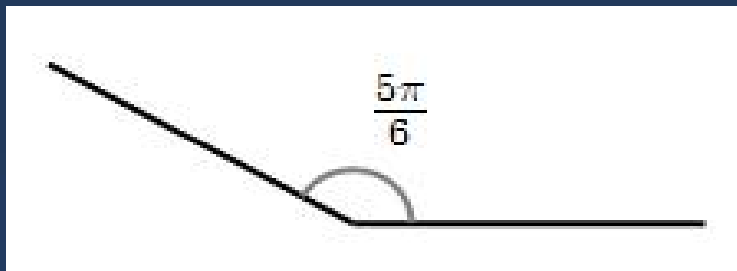


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2. Which of the following is the measure of the above angle in degrees?

- A. 120°
- B. 135°
- C. 150°
- D. 210°



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3. If $\theta = 240^\circ$, what is the value of θ in radians?

- A. $\frac{2\pi}{3}$
- B. $\frac{7\pi}{6}$
- C. $\frac{4\pi}{3}$
- D. $\frac{3\pi}{2}$

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4. If $\theta = 315^\circ$, what is the value of θ in radians?

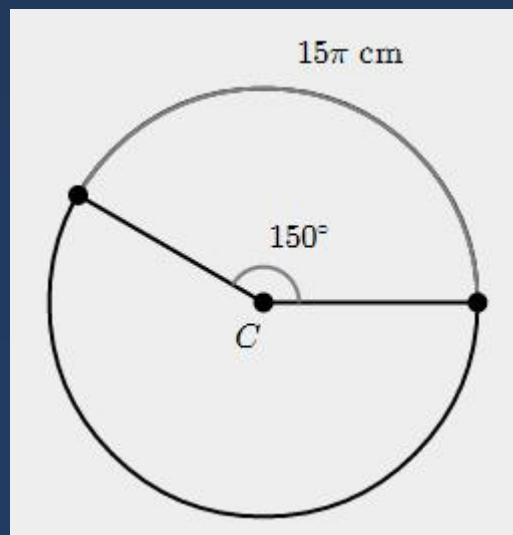
- A. $\frac{5\pi}{4}$
- B. $\frac{3\pi}{2}$
- C. $\frac{5\pi}{3}$
- D. $\frac{7\pi}{4}$

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5. In the circle C shown at left, a central angle of 150° intercepts an arc 15π centimeters (cm) in length. Which of the following best approximates the length of the radius of the circle?

- A. 0.3cm
- B. 2.6cm
- C. 5cm
- D. 18cm



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6. circle has a circumference of 12π feet (ft). An arc, x , in this circle has a central angle of 45° . What is the length of x ?

- A. $\frac{3\pi}{2} ft$
- B. $3\pi ft$
- C. 270ft
- D. 540ft

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7. Which of the following is the value of $\sin\left(\frac{\pi}{2}\right)$? ┐

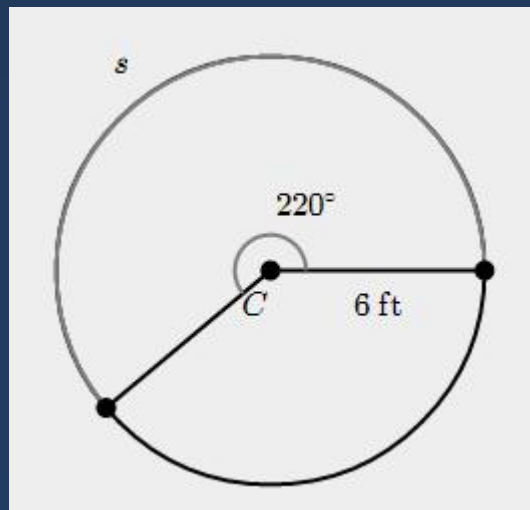
- A. -1
- B. 0
- C. $\frac{\sqrt{2}}{2}$
- D. 1

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8. In the diagram at left, circle C has a radius of 6 feet (ft). Which of the following best approximates the measure of the arc length s ?
A. 23ft B. 46ft C. 220ft D. 1320ft



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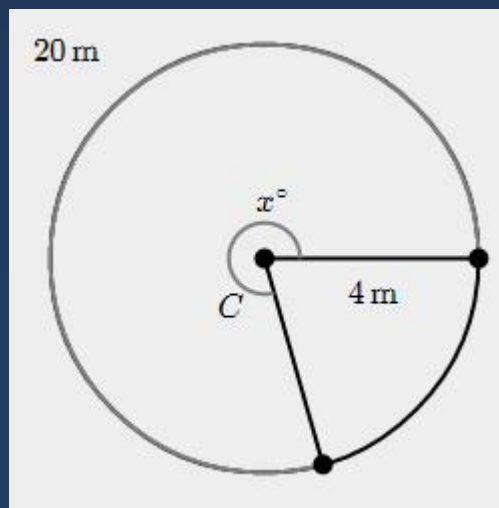
9. In a circle with center C and radius 4 meters (m), a central angle of x° intercepts an arc of 20 m as shown in the diagram at left. Rounded to the nearest degree, which of the following best approximates the value of x ?

5

80

286

304



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10. Which of the following is the value of $\sin(\frac{\pi}{3})$? ┐

- A. $\frac{1}{2}$
- B. $\frac{\sqrt{3}}{3}$
- C. $\frac{\sqrt{3}}{2}$
- D. $\sqrt{3}$

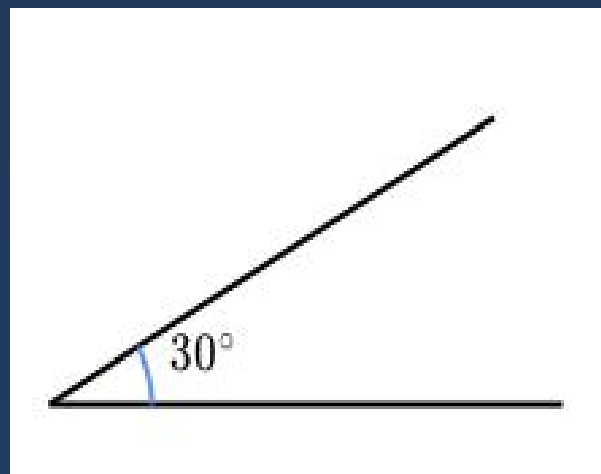
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11. Which of the following is the value of the cosine of the angle shown above?

- A. $\frac{1}{2}$
- B. $\frac{\sqrt{3}}{3}$
- C. $\frac{\sqrt{3}}{2}$
- D. $\sqrt{3}$



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