

Question ID 8e7689e0

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Geometry and Trigonometry	Circles	<div><div></div><div></div><div></div></div>

ID: 8e7689e0

2.1

The number of radians in a 720-degree angle can be written as $a\pi$, where a is a constant. What is the value of a ?

$$\begin{aligned} 180 &\rightarrow \pi \\ 720 &\rightarrow 4\pi \\ a &= 4 // \end{aligned}$$

Question ID 74d8b897

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ID: 74d8b897

2.2

An angle has a measure of $\frac{9\pi}{20}$ radians. What is the measure of the angle in degrees?

$$\pi = 180 \rightarrow 81^\circ //$$

Question ID 856372ca

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ID: 856372ca

2.3

In the xy -plane, a circle with radius 5 has center $(-8, 6)$. Which of the following is an equation of the circle?

- A. $(x \times 8)^2 + (y \times 6)^2 = 25$
- ~~B. $(x + 8)^2 + (y - 6)^2 = 25$~~
- C. $(x \times 8)^2 + (y \times 6)^2 = \times$
- D. $(x + 8)^2 + (y - 6)^2 = \times$

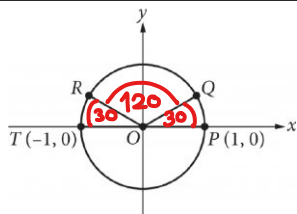
$$(x + 8)^2 + (y - 6)^2 = 25 //$$

Question ID 95ba2d09

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ID: 95ba2d09

2.4



In the xy -plane above, points P , Q , R , and T lie on the circle with center O . The degree measures of angles POQ and ROT are each 30° . What is the radian measure of angle QOR ?

- A. $\frac{5}{6}\pi$
- B. $\frac{3}{4}\pi$
- ☒ C. $\frac{2}{3}\pi$
- D. $\frac{1}{3}\pi$

Rule of 3 or $\frac{\pi}{180}$

$$180 \rightarrow \pi$$

$$120 \rightarrow \frac{2}{3}\pi //$$

Question ID 82c8325f

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ID: 82c8325f

2.5

A circle in the xy -plane has its center at $(-4, 5)$ and the point $(-8, 8)$ lies on the circle. Which equation represents this circle?

- A. $(x \times 4)^2 + (y \times 5)^2 = \times$
- B. $(x + 4)^2 + (y - 5)^2 = \times$
- C. $(x \times 4)^2 + (y \times 5)^2 = 25$
- ~~D.~~ $(x + 4)^2 + (y - 5)^2 = 25$

$$\sqrt{(-4+8)^2 + (5-8)^2} = 5$$

$$(x+4)^2 + (y-5)^2 = 25 //$$

และ $(-8, 8)$ ในข้อ