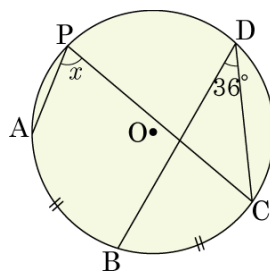


1. 다음 그림에서 $\angle x$ 의 크기를 구하면?

- ① 48° ② 52° ③ 60°
 ④ 64° ⑤ 72°

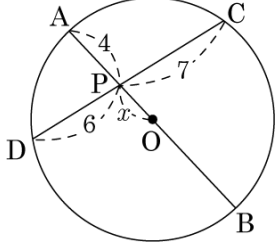


해설

$5.0\text{pt}\widehat{AC} = 25.0\text{pt}\widehat{BC}^\circ$ 이므로
 $\therefore \angle x = 36^\circ \times 2 = 72^\circ$

2. 다음 그림에서 x 의 길이를 구하면?

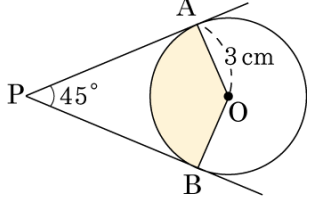
- ① $\frac{11}{4}$
- ② $\frac{13}{4}$
- ③ $\frac{15}{4}$
- ④ $\frac{17}{4}$
- ⑤ $\frac{19}{4}$



해설

$\overline{OB} = 4 + x$ 이므로 $\overline{BP} = 2x + 4$
 $6 \times 7 = 4(2x + 4), 42 = 8x + 16$
 $8x = 26$
 $\therefore x = \frac{13}{4}$

3. 다음 그림에서 색칠한 부분의 넓이는?



- ① $25\pi\text{cm}^2$ ② $\frac{27}{8}\pi\text{cm}^2$ ③ $\frac{39}{4}\pi\text{cm}^2$
④ $42\pi\text{cm}^2$ ⑤ $\frac{57}{2}\pi\text{cm}^2$

해설

$$\begin{aligned}\angle AOB &= 135^\circ \\ \frac{135^\circ}{360^\circ} \times 9\pi &= \frac{27}{8}\pi(\text{cm}^2)\end{aligned}$$