

1. 다음 그림에서 $\angle x$ 의 크기를 구하면?

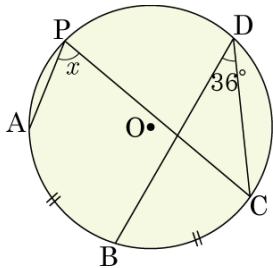
① 48°

② 52°

③ 60°

④ 64°

⑤ 72°



해설

$5.0\text{pt}\widehat{AC} = 25.0\text{pt}\widehat{BC}$ 이므로

$$\therefore \angle x = 36^\circ \times 2 = 72^\circ$$

2. 다음 그림에서 x 의 길이를 구하면?

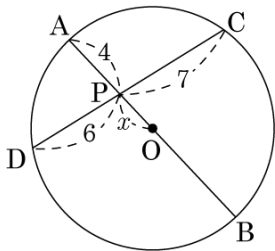
① $\frac{11}{4}$

② $\frac{13}{4}$

③ $\frac{15}{4}$

④ $\frac{17}{4}$

⑤ $\frac{19}{4}$



해설

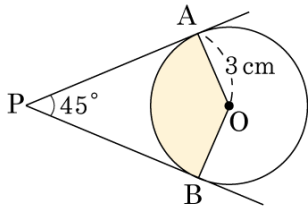
$$\overline{OB} = 4 + x \text{ 이므로 } \overline{BP} = 2x + 4$$

$$6 \times 7 = 4(2x + 4), 42 = 8x + 16$$

$$8x = 26$$

$$\therefore x = \frac{13}{4}$$

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

$$\angle AOB = 135^\circ$$

$$\frac{135^\circ}{360^\circ} \times 9\pi = \frac{27}{8}\pi(\text{cm}^2)$$