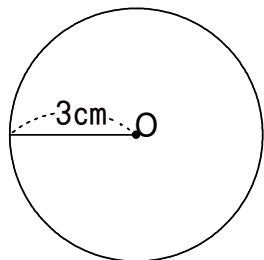


円とおうぎ形 1

年 組 番・氏名

①



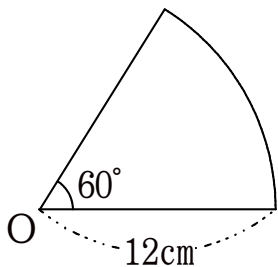
円周

$$2\pi \times 3 \\ = 6\pi(\text{cm})$$

円の面積

$$\pi \times 3 \times 3 \\ = 9\pi(\text{cm}^2)$$

②



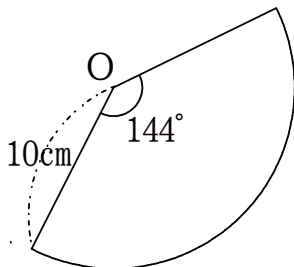
弧の長さ

$$2\pi \times 12 \times \frac{60}{360} \\ = 2\pi \times 12 \times \frac{1}{6} \\ = 4\pi(\text{cm})$$

おうぎ形の面積

$$\pi \times 12 \times 12 \times \frac{60}{360} \\ = \pi \times 12 \times 12 \times \frac{1}{6} \\ = 24\pi(\text{cm}^2)$$

③



弧の長さ

$$2\pi \times 10 \times \frac{144}{360} \\ = 2\pi \times 10 \times \frac{2}{5} \\ = 8\pi(\text{cm})$$

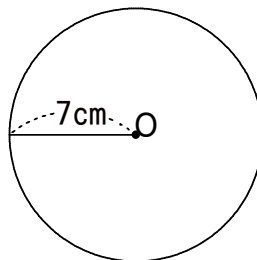
おうぎ形の面積

$$\pi \times 10 \times 10 \times \frac{144}{360} \\ = \pi \times 10 \times 10 \times \frac{2}{5} \\ = 40\pi(\text{cm}^2)$$

円とおうぎ形 2

年 組 番・氏名

①



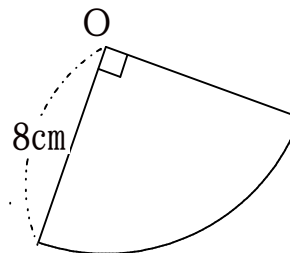
円周

$$2\pi \times 7 \\ = 14\pi(\text{cm})$$

円の面積

$$\pi \times 7 \times 7 \\ = 49\pi(\text{cm}^2)$$

②



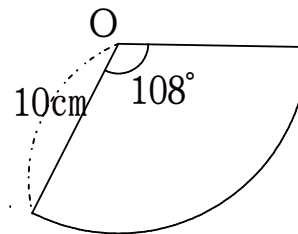
弧の長さ

$$2\pi \times 8 \times \frac{90}{360} \\ = 2\pi \times 8 \times \frac{1}{4} \\ = 4\pi(\text{cm})$$

おうぎ形の面積

$$\pi \times 8 \times 8 \times \frac{90}{360} \\ = \pi \times 8 \times 8 \times \frac{1}{4} \\ = 16\pi(\text{cm}^2)$$

③



弧の長さ

$$2\pi \times 10 \times \frac{108}{360} \\ = 2\pi \times 10 \times \frac{3}{10} \\ = 6\pi(\text{cm})$$

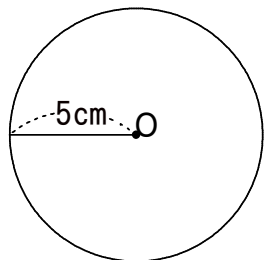
おうぎ形の面積

$$\pi \times 10 \times 10 \times \frac{108}{360} \\ = \pi \times 10 \times 10 \times \frac{3}{10} \\ = 30\pi(\text{cm}^2)$$

円とおうぎ形 3

年 組 番・氏名

①



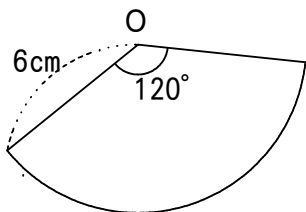
円周

$$2\pi \times 5 = 10\pi(\text{cm})$$

円の面積

$$\pi \times 5 \times 5 = 25\pi(\text{cm}^2)$$

②



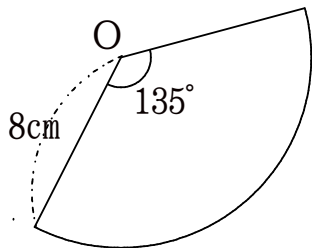
弧の長さ

$$2\pi \times 6 \times \frac{120}{360} = 2\pi \times 6 \times \frac{1}{3} = 4\pi(\text{cm})$$

おうぎ形の面積

$$\pi \times 6 \times 6 \times \frac{120}{360} = \pi \times 6 \times 6 \times \frac{1}{3} = 12\pi(\text{cm}^2)$$

③



弧の長さ

$$2\pi \times 8 \times \frac{135}{360} = 2\pi \times 8 \times \frac{3}{8} = 6\pi(\text{cm})$$

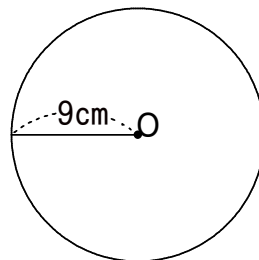
おうぎ形の面積

$$\pi \times 8 \times 8 \times \frac{135}{360} = \pi \times 8 \times 8 \times \frac{3}{8} = 24\pi(\text{cm}^2)$$

円とおうぎ形 4

年 組 番・氏名

①



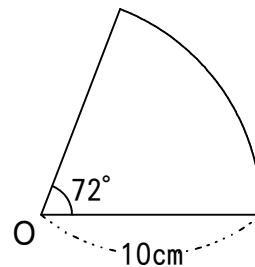
円周

$$2\pi \times 9 = 18\pi(\text{cm})$$

円の面積

$$\pi \times 9 \times 9 = 81\pi(\text{cm}^2)$$

②



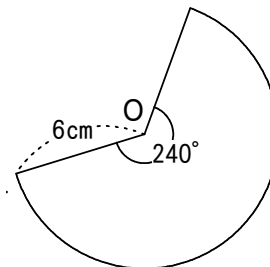
弧の長さ

$$2\pi \times 10 \times \frac{72}{360} = 2\pi \times 10 \times \frac{1}{5} = 4\pi(\text{cm})$$

おうぎ形の面積

$$\pi \times 10 \times 10 \times \frac{72}{360} = \pi \times 10 \times 10 \times \frac{1}{5} = 20\pi(\text{cm}^2)$$

③



弧の長さ

$$2\pi \times 6 \times \frac{240}{360} = 2\pi \times 6 \times \frac{2}{3} = 8\pi(\text{cm})$$

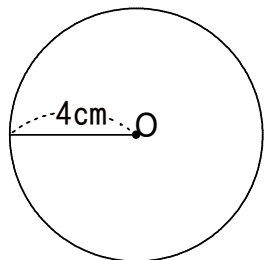
おうぎ形の面積

$$\pi \times 6 \times 6 \times \frac{240}{360} = \pi \times 6 \times 6 \times \frac{2}{3} = 24\pi(\text{cm}^2)$$

円とおうぎ形 5

年 組 番・氏名

①



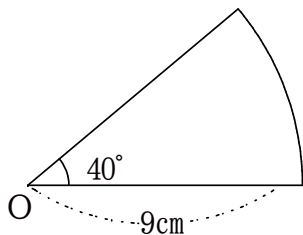
円周

$$2\pi \times 4 \\ = 8\pi(\text{cm})$$

円の面積

$$\pi \times 4 \times 4 \\ = 16\pi(\text{cm}^2)$$

②



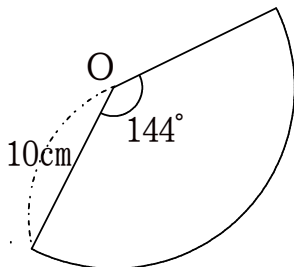
弧の長さ

$$2\pi \times 9 \times \frac{40}{360} \\ = 2\pi \times 9 \times \frac{1}{9} \\ = 2\pi(\text{cm})$$

おうぎ形の面積

$$\pi \times 9 \times 9 \times \frac{40}{360} \\ = \pi \times 9 \times 9 \times \frac{1}{9} \\ = 9\pi(\text{cm}^2)$$

③



弧の長さ

$$2\pi \times 10 \times \frac{144}{360} \\ = 2\pi \times 10 \times \frac{2}{5} \\ = 8\pi(\text{cm})$$

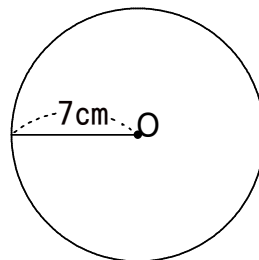
おうぎ形の面積

$$\pi \times 10 \times 10 \times \frac{144}{360} \\ = \pi \times 10 \times 10 \times \frac{2}{5} \\ = 40\pi(\text{cm}^2)$$

円とおうぎ形 6

年 組 番・氏名

①



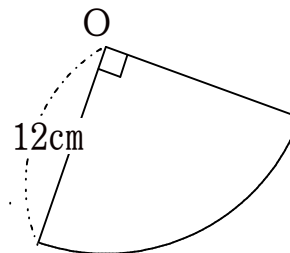
円周

$$2\pi \times 7 \\ = 14\pi(\text{cm})$$

円の面積

$$\pi \times 7 \times 7 \\ = 49\pi(\text{cm}^2)$$

②



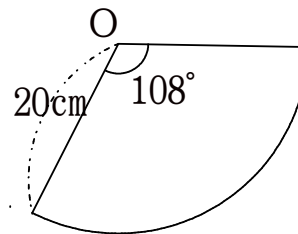
弧の長さ

$$2\pi \times 12 \times \frac{90}{360} \\ = 2\pi \times 12 \times \frac{1}{4} \\ = 6\pi(\text{cm})$$

おうぎ形の面積

$$\pi \times 12 \times 12 \times \frac{90}{360} \\ = \pi \times 12 \times 12 \times \frac{1}{4} \\ = 36\pi(\text{cm}^2)$$

③



弧の長さ

$$2\pi \times 20 \times \frac{108}{360} \\ = 2\pi \times 20 \times \frac{3}{10} \\ = 12\pi(\text{cm})$$

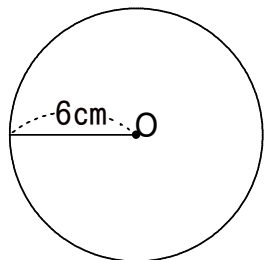
おうぎ形の面積

$$\pi \times 20 \times 20 \times \frac{108}{360} \\ = \pi \times 20 \times 20 \times \frac{3}{10} \\ = 120\pi(\text{cm}^2)$$

円とおうぎ形 7

年 組 番・氏名

①



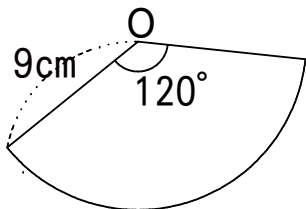
円周

$$2\pi \times 6 = 12\pi(\text{cm})$$

円の面積

$$\pi \times 6 \times 6 = 36\pi(\text{cm}^2)$$

②



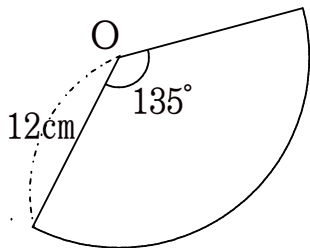
弧の長さ

$$2\pi \times 9 \times \frac{120}{360} = 2\pi \times 9 \times \frac{1}{3} = 6\pi(\text{cm})$$

おうぎ形の面積

$$\pi \times 9 \times 9 \times \frac{120}{360} = \pi \times 9 \times 9 \times \frac{1}{3} = 27\pi(\text{cm}^2)$$

③



弧の長さ

$$2\pi \times 12 \times \frac{135}{360} = 2\pi \times 12 \times \frac{3}{8} = 9\pi(\text{cm})$$

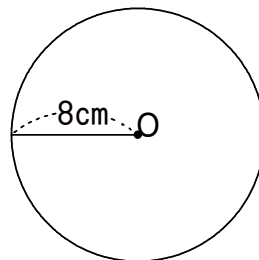
おうぎ形の面積

$$\pi \times 12 \times 12 \times \frac{135}{360} = \pi \times 12 \times 12 \times \frac{3}{8} = 54\pi(\text{cm}^2)$$

円とおうぎ形 8

年 組 番・氏名

①



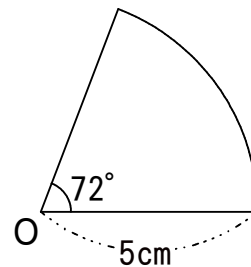
円周

$$2\pi \times 8 = 16\pi(\text{cm})$$

円の面積

$$\pi \times 8 \times 8 = 64\pi(\text{cm}^2)$$

②



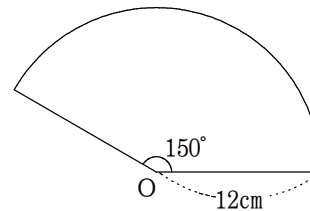
弧の長さ

$$2\pi \times 5 \times \frac{72}{360} = 2\pi \times 5 \times \frac{1}{5} = 2\pi(\text{cm})$$

おうぎ形の面積

$$\pi \times 5 \times 5 \times \frac{72}{360} = \pi \times 5 \times 5 \times \frac{1}{5} = 5\pi(\text{cm}^2)$$

③



弧の長さ

$$2\pi \times 12 \times \frac{150}{360} = 2\pi \times 12 \times \frac{5}{12} = 10\pi(\text{cm})$$

おうぎ形の面積

$$\pi \times 12 \times 12 \times \frac{150}{360} = \pi \times 12 \times 12 \times \frac{5}{12} = 60\pi(\text{cm}^2)$$