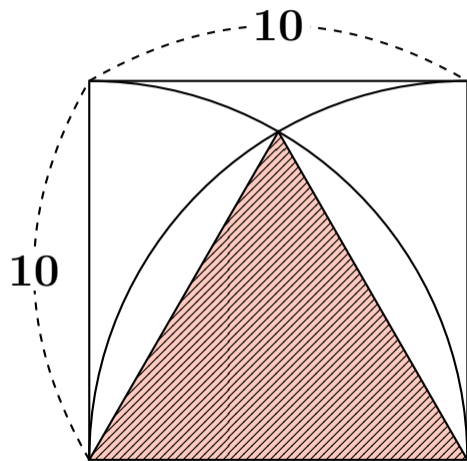
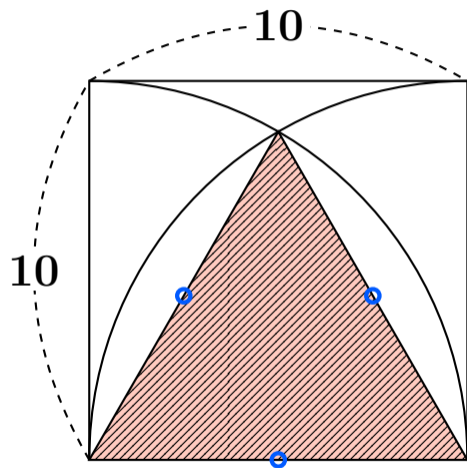


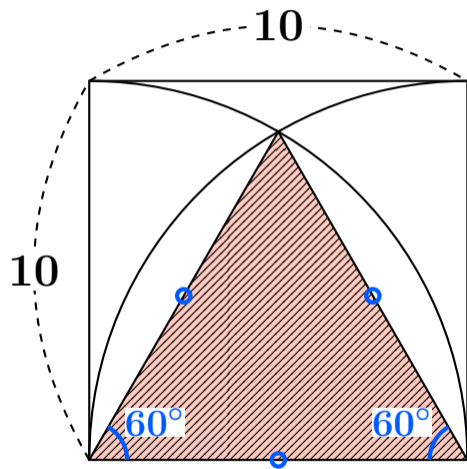
# 面積を求めなさい



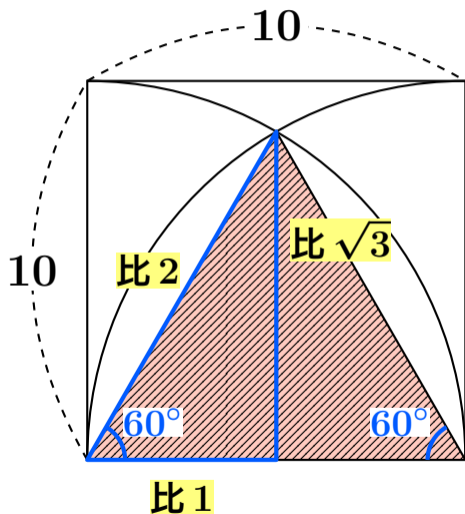
# 面積を求めなさい



# 面積を求めなさい

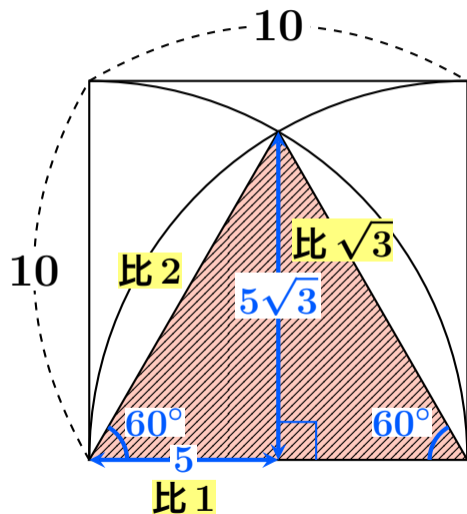


# 面積を求めなさい

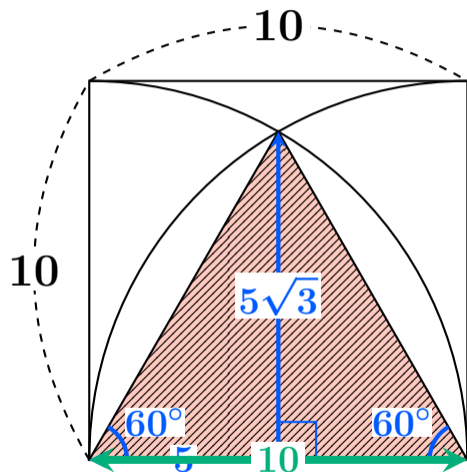


$1 : 2 : \sqrt{3}$  の三角形になる。

# 面積を求めなさい

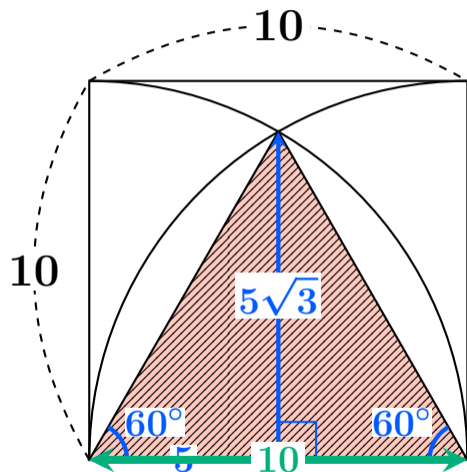


# 面積を求めなさい



底辺  $\times$  高さ  $\div 2$  より

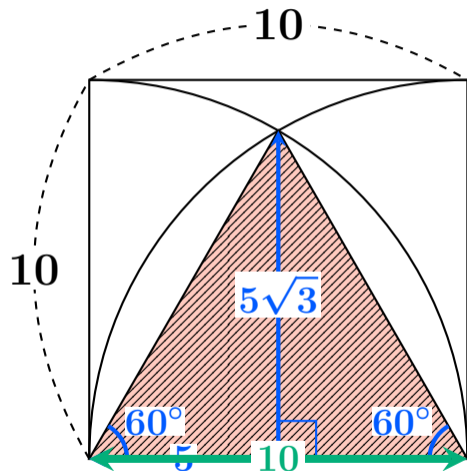
# 面積を求めなさい



底辺 × 高さ ÷ 2 より  
求める面積は

$$10 \times 5\sqrt{3} \div 2$$

# 面積を求めなさい



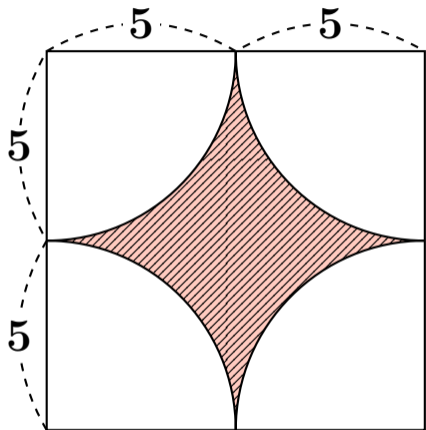
底辺 × 高さ ÷ 2 より  
求める面積は

$$10 \times 5\sqrt{3} \div 2$$

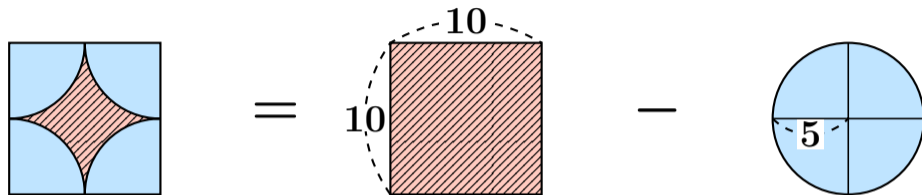
$$= 25\sqrt{3} \quad \boxed{\text{答}}$$



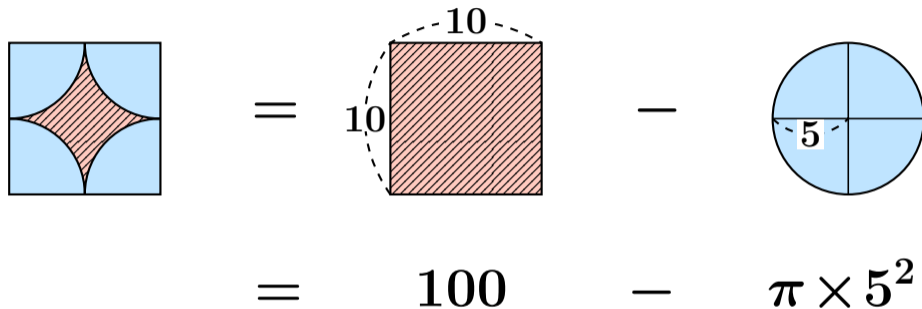
# 面積を求めなさい



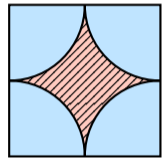
# 面積を求めなさい



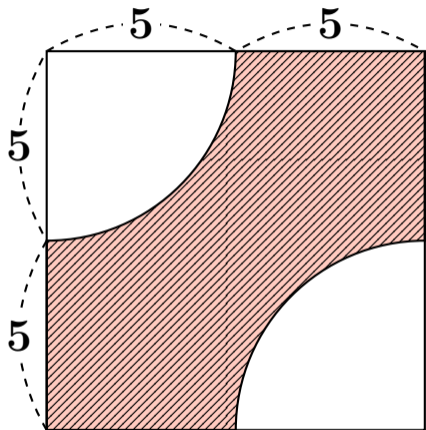
# 面積を求めなさい



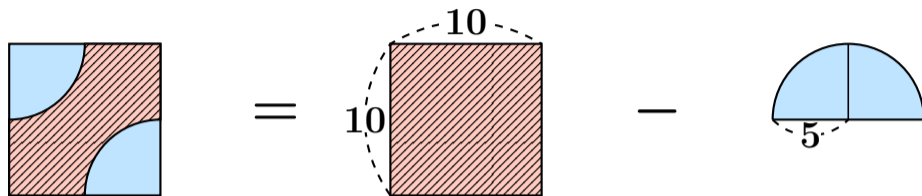
# 面積を求めなさい


$$\begin{aligned} &= \text{面積} \text{の正方形} - \text{面積} \text{の円} \\ &= 100 - \pi \times 5^2 \\ &= 100 - 25\pi \quad \boxed{\text{答}} \end{aligned}$$

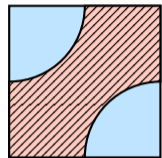
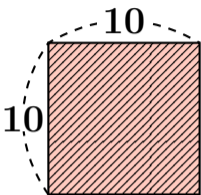
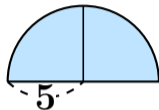
# 面積を求めなさい



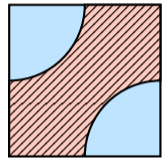
# 面積を求めなさい



# 面積を求めなさい

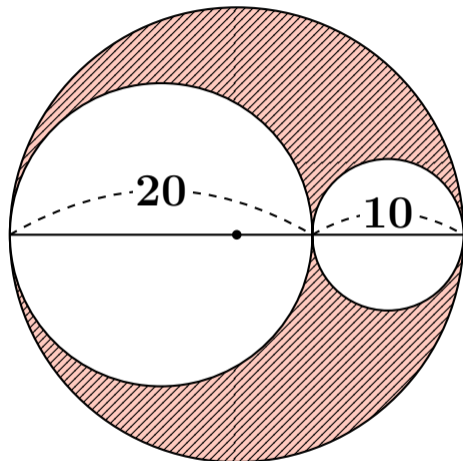

$$=$$

$$-$$

$$=$$
$$100$$
$$-$$
$$\frac{\pi \times 5^2}{2}$$

# 面積を求めなさい

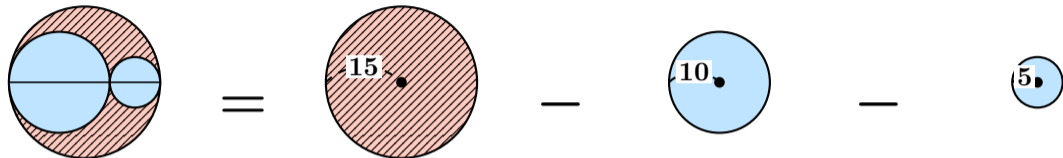

$$\begin{aligned} &= \text{面積} 10 \times 10 - \text{面積} \frac{1}{2} \times \pi \times 5^2 \\ &= 100 - \frac{\pi \times 5^2}{2} \\ &= 100 - \frac{25\pi}{2} \quad \boxed{\text{答}} \end{aligned}$$



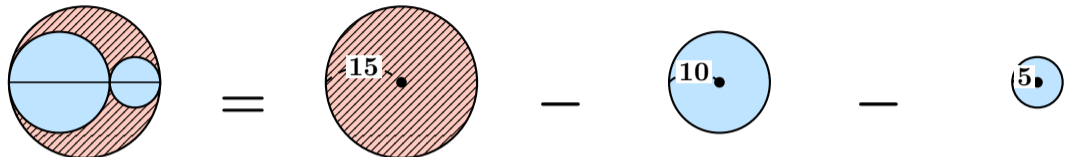
# 面積を求めなさい



# 面積を求めなさい



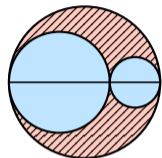
# 面積を求めなさい



The diagram illustrates the calculation of the area of a shaded region. It consists of a large circle with a radius of 15, a medium circle with a radius of 10, and a small circle with a radius of 5. The area of the large circle is shaded with diagonal lines. The two smaller circles are unshaded and are positioned such that they are entirely contained within the large circle. The equation below shows the area of the shaded region as the area of the large circle minus the areas of the two smaller circles.

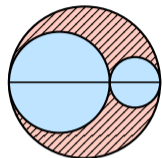
$$\begin{aligned} &= \pi \times 15^2 - \pi \times 10^2 - \pi \times 5^2 \end{aligned}$$

# 面積を求めなさい



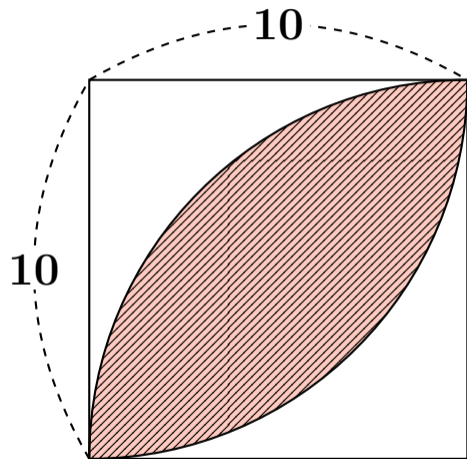
$$\begin{aligned} &= \text{Area of circle with radius 15} - \text{Area of circle with radius 10} - \text{Area of circle with radius 5} \\ &= \pi \times 15^2 - \pi \times 10^2 - \pi \times 5^2 \\ &= 225\pi - 100\pi - 25\pi \end{aligned}$$

# 面積を求めなさい

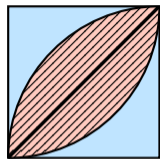


$$\begin{aligned} &= \text{Area of circle with radius 15} - \text{Area of circle with radius 10} - \text{Area of circle with radius 5} \\ &= \pi \times 15^2 - \pi \times 10^2 - \pi \times 5^2 \\ &= 225\pi - 100\pi - 25\pi \\ &= 100\pi \quad \boxed{\text{答}} \end{aligned}$$

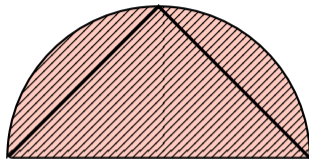
# 面積を求めなさい



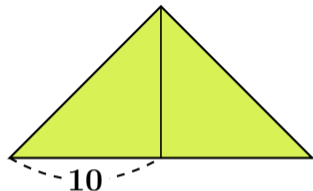
# 面積を求めなさい



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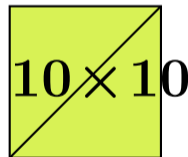
-



=

$$\frac{\pi \times 10^2}{2}$$

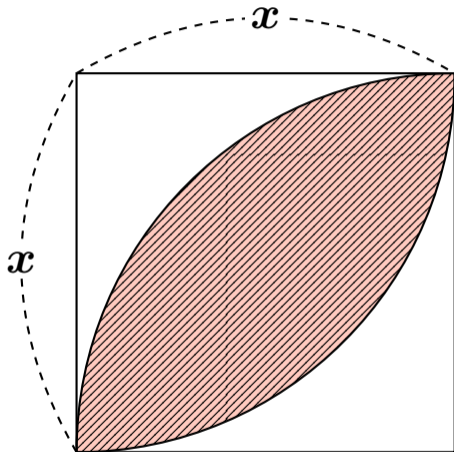
-



=

$$50\pi - 100 \quad \boxed{\text{答}}$$

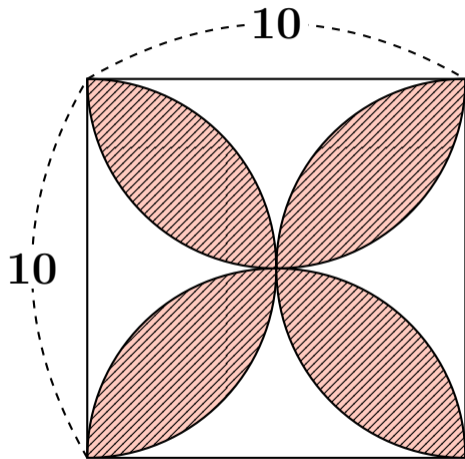
一般化すると下記のようになる



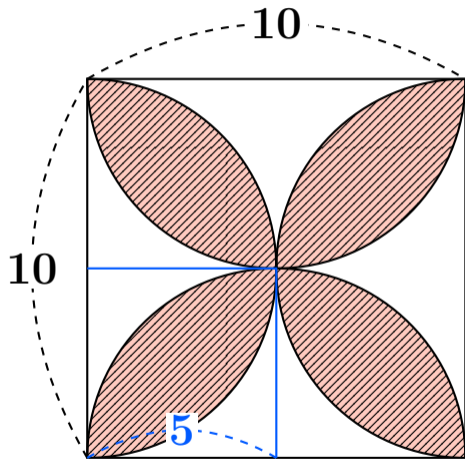
$$\frac{\pi x^2}{2} - x^2$$



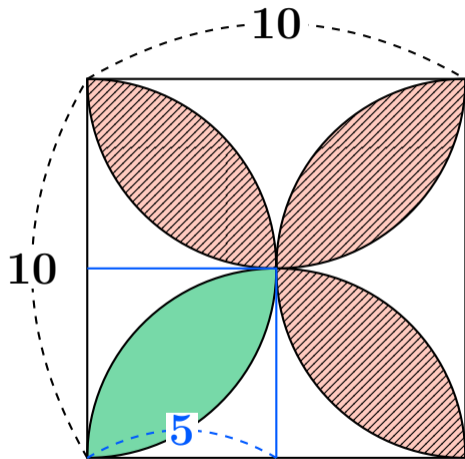
# 面積を求めなさい



# 面積を求めなさい

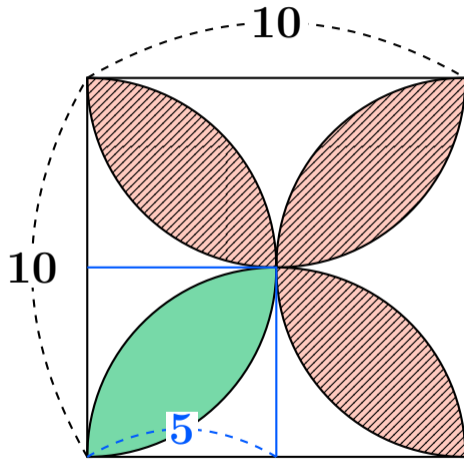


# 面積を求めなさい



式に当てはめると 1 個分で  
 $\frac{\pi \times 5^2}{2} - 5^2$  だから、

# 面積を求めなさい

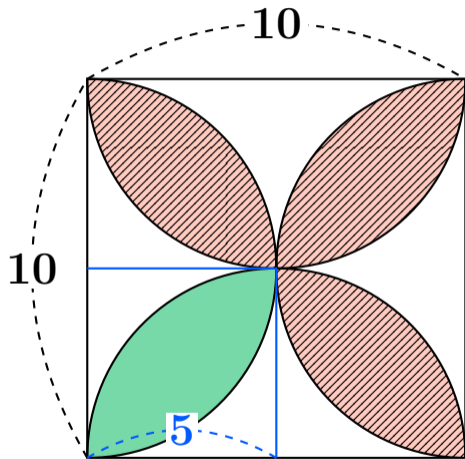


式に当てはめると 1 個分で  
 $\frac{\pi \times 5^2}{2} - 5^2$  だから、求める

面積は

$$4 \times \left( \frac{\pi \times 5^2}{2} - 5^2 \right)$$

# 面積を求めなさい



式に当てはめると 1 個分で  
 $\frac{\pi \times 5^2}{2} - 5^2$  だから、求める

面積は

$$4 \times \left( \frac{\pi \times 5^2}{2} - 5^2 \right)$$

$$= 50\pi - 100$$

答