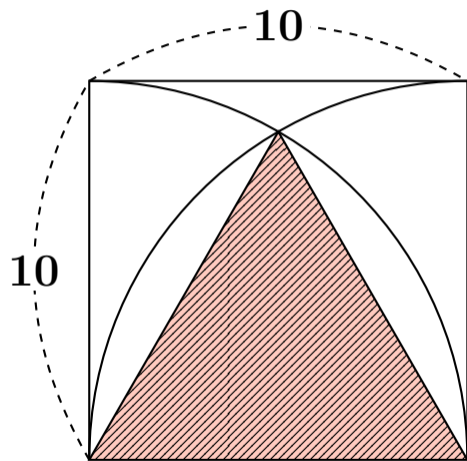
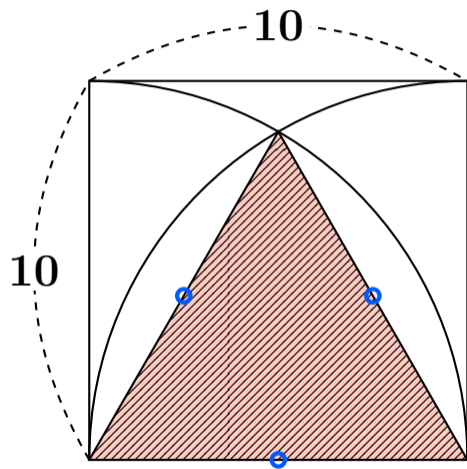


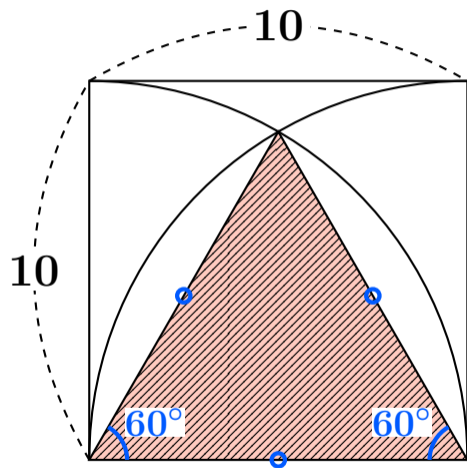
面積を求めなさい



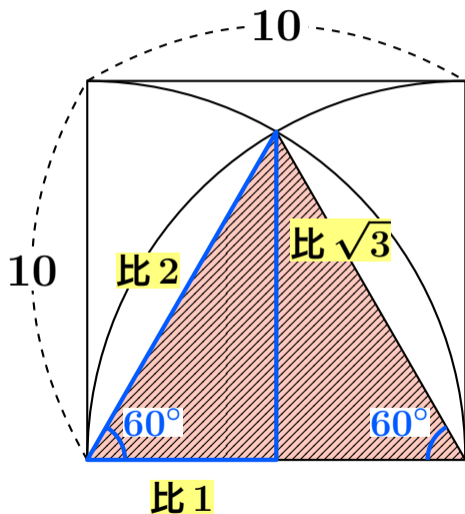
面積を求めなさい



面積を求めなさい

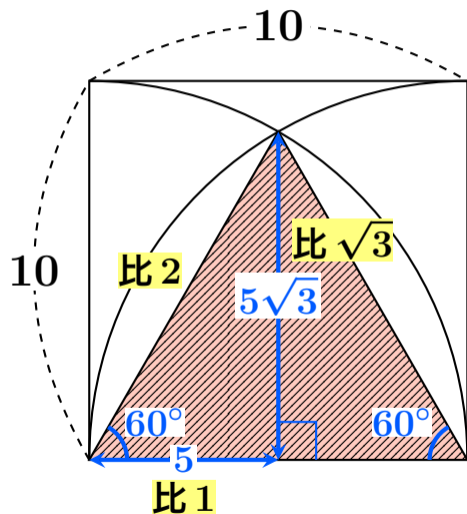


面積を求めなさい

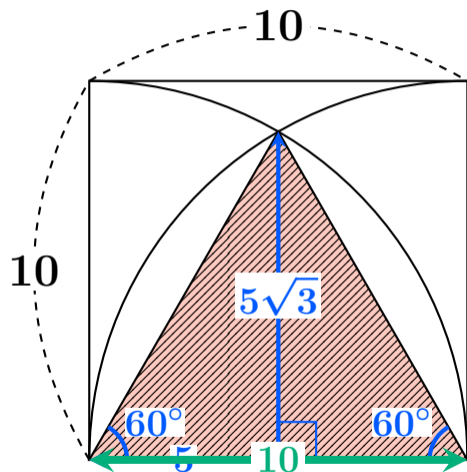


$1 : 2 : \sqrt{3}$ の三角形になる。

面積を求めなさい

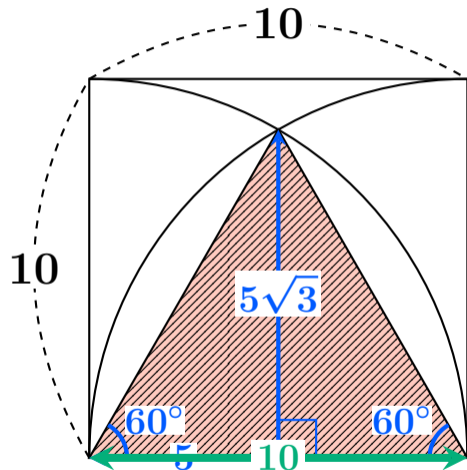


面積を求めなさい



底辺 \times 高さ $\div 2$ より

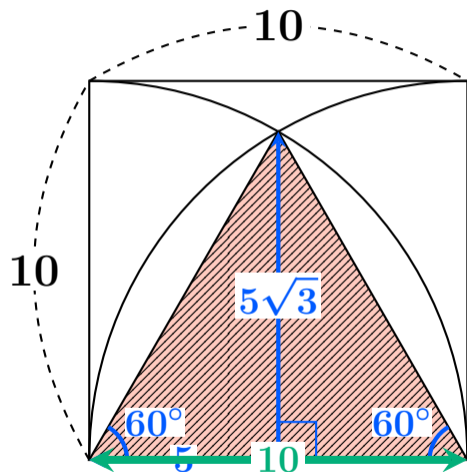
面積を求めなさい



底辺 \times 高さ $\div 2$ より
求める面積は

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

面積を求めなさい

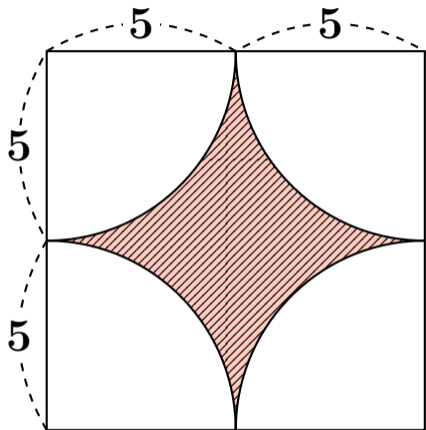


底辺 × 高さ ÷ 2 より
求める面積は

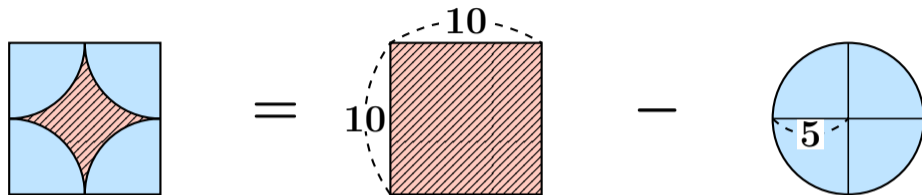
$$10 \times 5\sqrt{3} \div 2$$

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

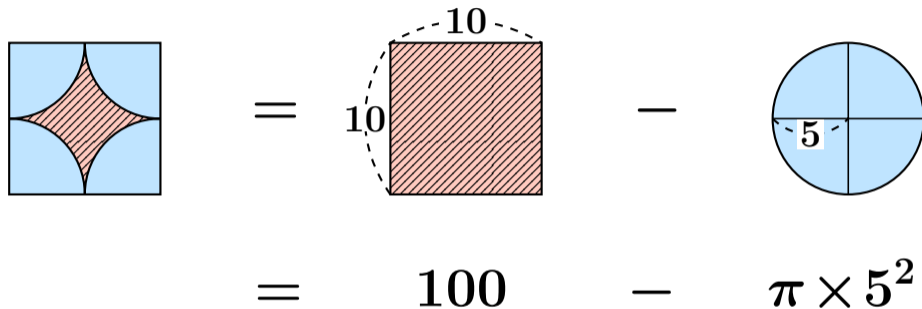
面積を求めなさい



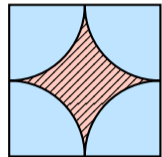
面積を求めなさい



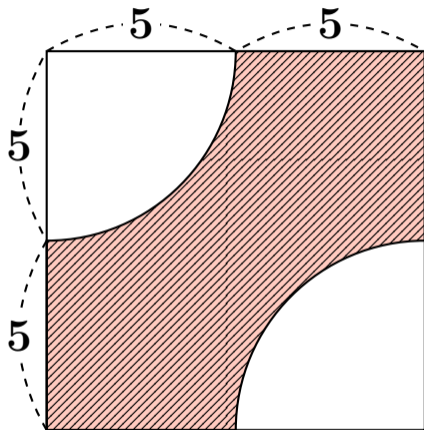
面積を求めなさい



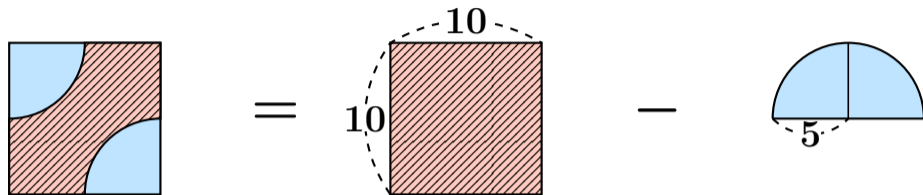
面積を求めなさい


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

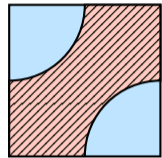
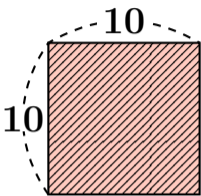
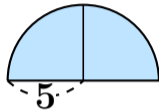
面積を求めなさい



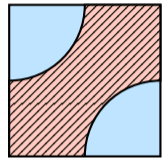
面積を求めなさい



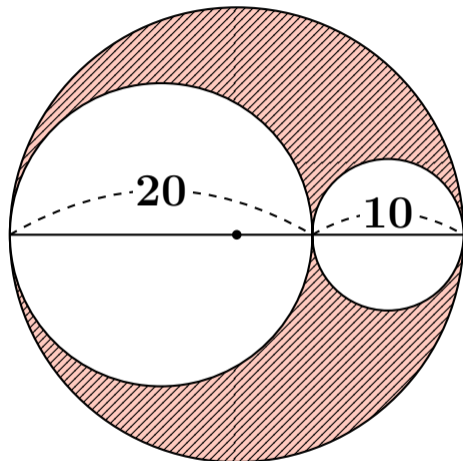
面積を求めなさい


$$=$$

$$-$$

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

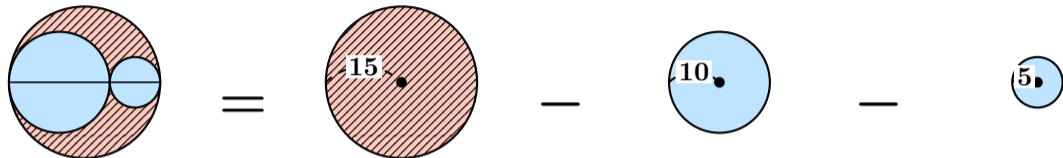
面積を求めなさい


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

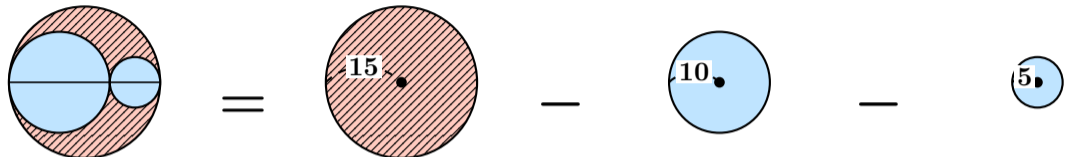
面積を求めなさい



面積を求めなさい



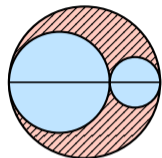
面積を求めなさい



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 shaded region is the area of the large circle minus the areas of the two smaller circles.

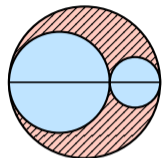
$$\begin{aligned} &= \pi \times 15^2 - \pi \times 10^2 - \pi \times 5^2 \end{aligned}$$

面積を求めなさい



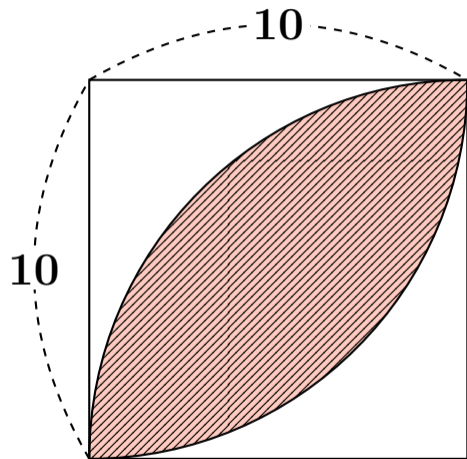
$$\begin{aligned} &= \text{Area of circle with radius 15} - \text{Area of circle with radius 10} - \text{Area of circle with radius 5} \\ &= \pi \times 15^2 - \pi \times 10^2 - \pi \times 5^2 \\ &= 225\pi - 100\pi - 25\pi \end{aligned}$$

面積を求めなさい

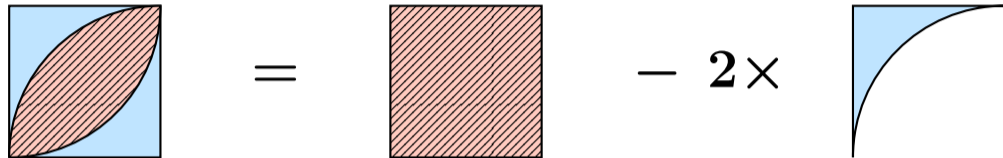


$$\begin{aligned} &= \text{半径}15\text{の円の面積} - \text{半径}10\text{の円の面積} - \text{半径}5\text{の円の面積} \\ &= \pi \times 15^2 - \pi \times 10^2 - \pi \times 5^2 \\ &= 225\pi - 100\pi - 25\pi \\ &= 100\pi \quad \boxed{\text{答}} \end{aligned}$$

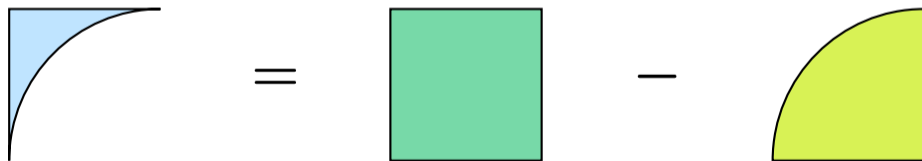
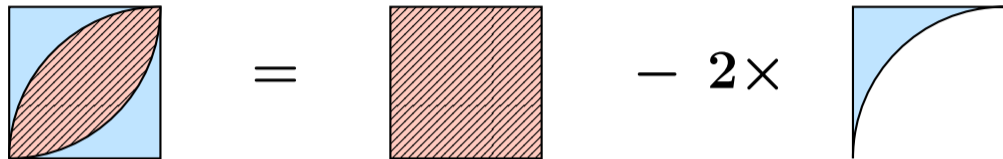
面積を求めなさい



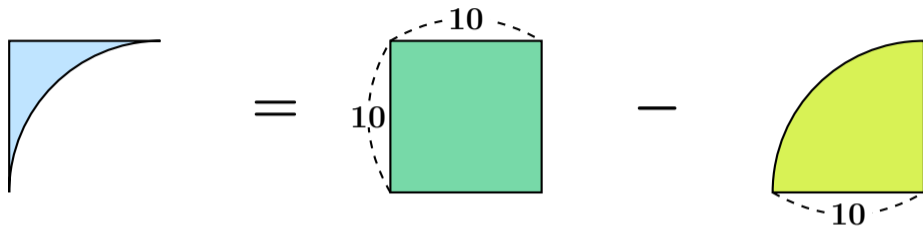
面積を求めなさい



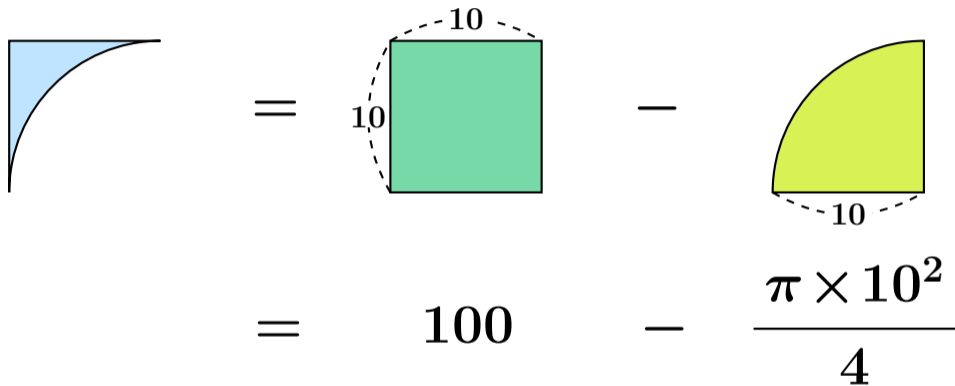
面積を求めなさい



面積を求めなさい



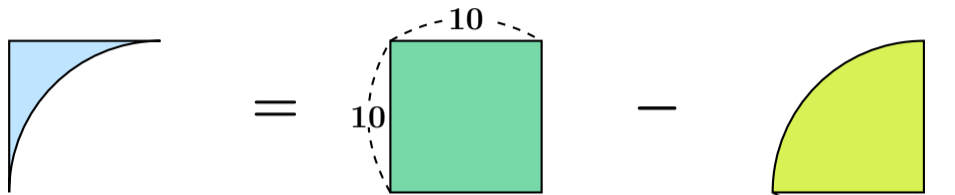
面積を求めなさい



The diagram illustrates the calculation of the area of a quarter-circle sector with a radius of 10. It is shown as the area of a square with side length 10, minus the area of a quarter-circle with radius 10.

$$= 100 - \frac{\pi \times 10^2}{4}$$

面積を求めなさい

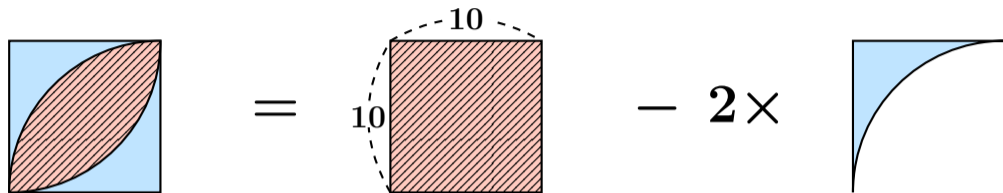


The diagram illustrates the calculation of the area of a quarter-circle sector with radius 10. It is shown as the area of a 10x10 square minus the area of a quarter-circle with radius 10.

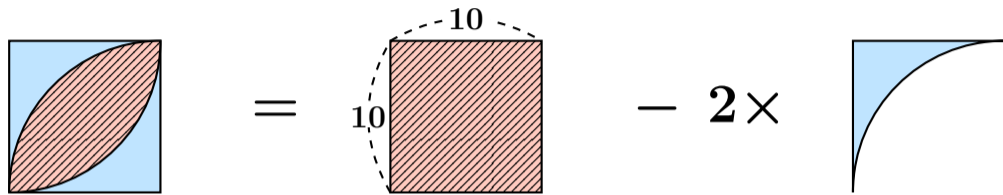
$$= 100 - \frac{\pi \times 10^2}{4}$$
$$= 100 - 25\pi$$



面積を求めなさい



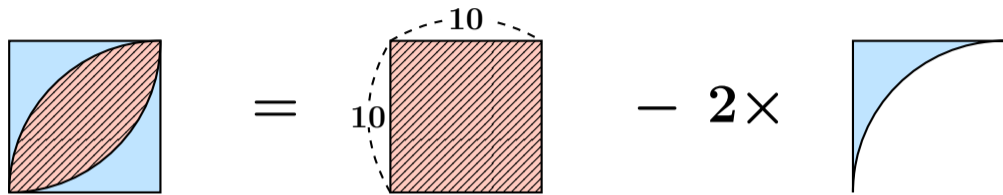
面積を求めなさい



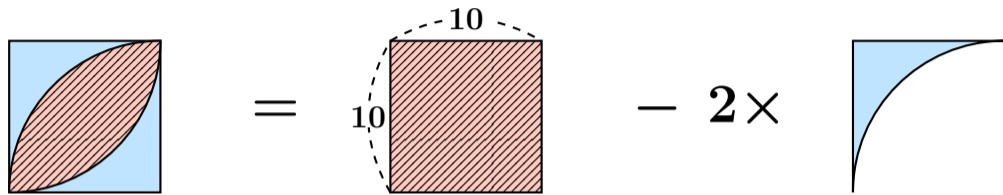
The diagram illustrates the calculation of the area of a lens-shaped region. On the left, a square contains a lens-shaped region shaded with red diagonal lines, bounded by two quarter-circles of radius 10. This is equated to the area of a square with side length 10 (shaded with red diagonal lines) minus two times the area of a quarter-circle with radius 10 (shaded light blue). The final calculation shows the area is 100 minus 2 times (100 minus 25π).

$$\begin{aligned} &= 100 - 2(100 - 25\pi) \end{aligned}$$

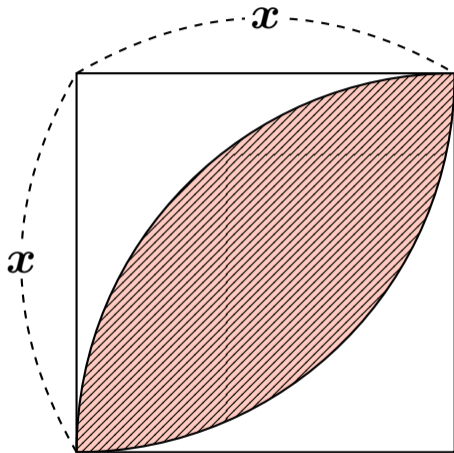
面積を求めなさい


$$\begin{aligned} &= \text{Area of square} - 2 \times \text{Area of quarter-circle} \\ &= 100 - 2(100 - 25\pi) \\ &= 100 - 200 + 50\pi \end{aligned}$$

面積を求めなさい

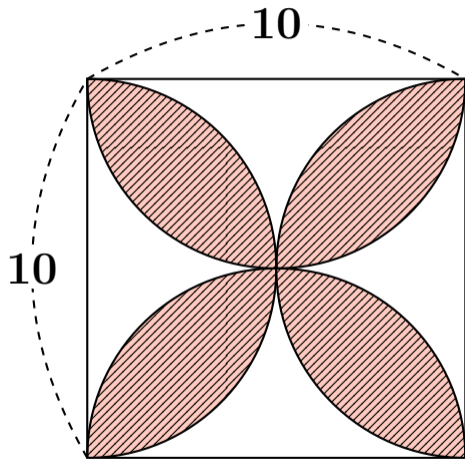

$$\begin{aligned} &= 100 - 2(100 - 25\pi) \\ &= 100 - 200 + 50\pi \\ &= 50\pi - 100 \quad \boxed{\text{答}} \end{aligned}$$

一般化すると下記のようになる

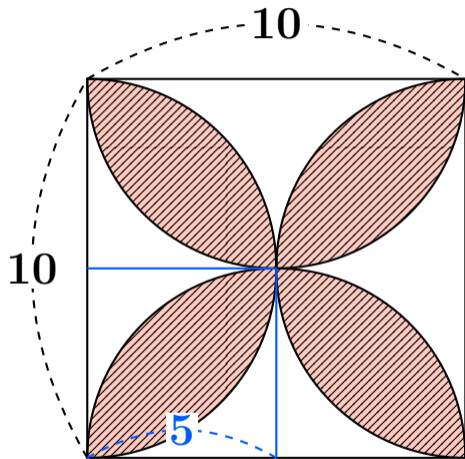


$$\left(\frac{\pi}{2} - 1\right) x^2$$

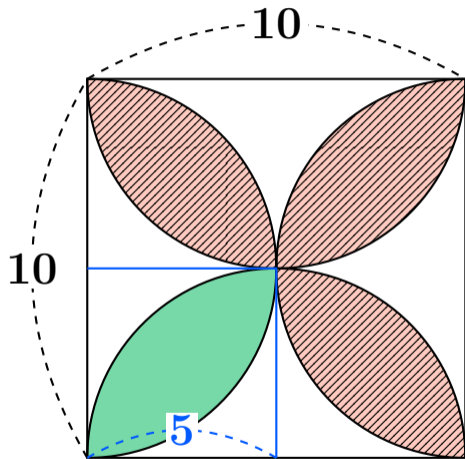
面積を求めなさい



面積を求めなさい

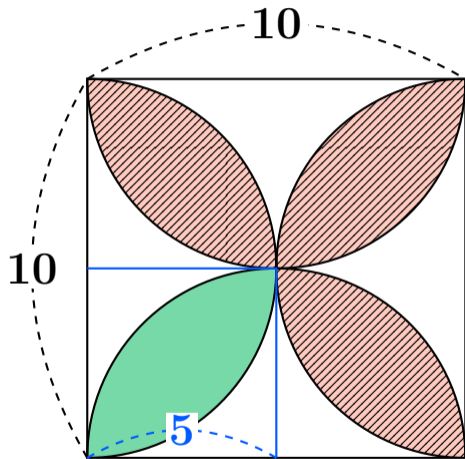


面積を求めなさい



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

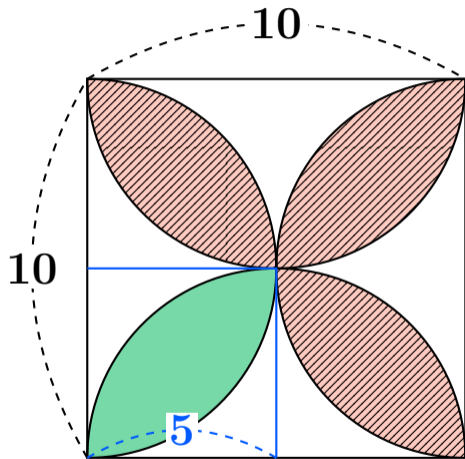
面積を求めなさい



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

$$4 \times (\frac{\pi}{2} - 1) \times 5^2$$

面積を求めなさい



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

$$4 \times (\frac{\pi}{2} - 1) \times 5^2 \\ = 50\pi - 100 \quad \boxed{\text{答}}$$