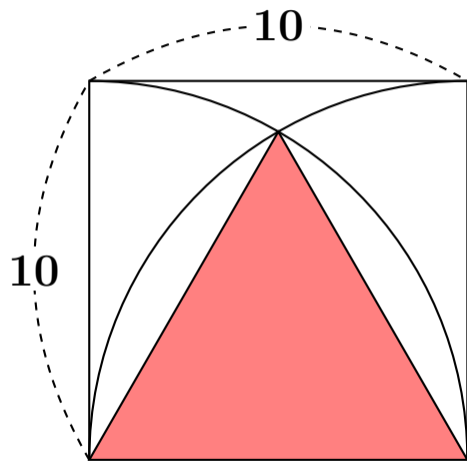
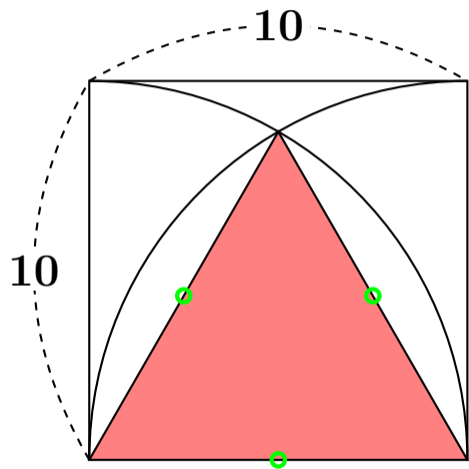


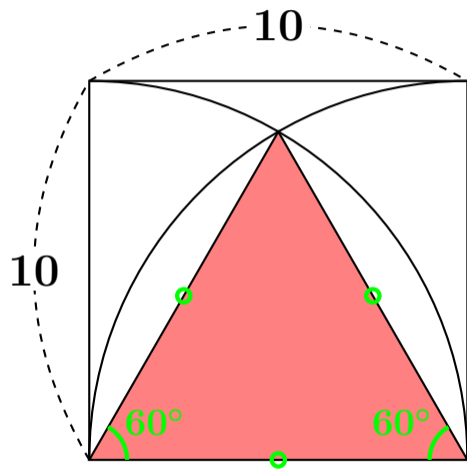
面積を求めなさい



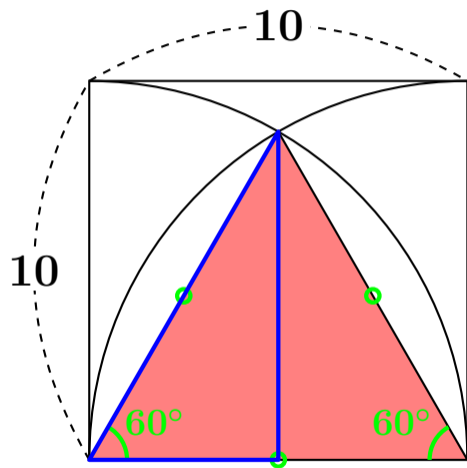
面積を求めなさい



面積を求めなさい

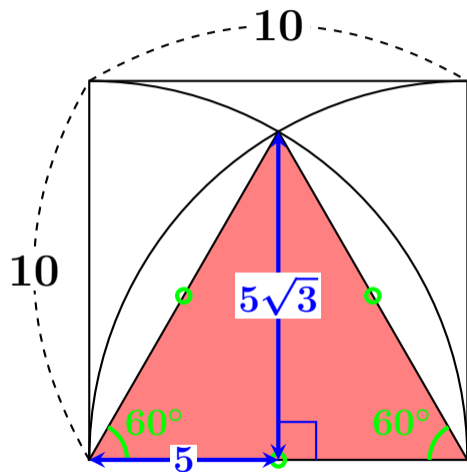


面積を求めなさい

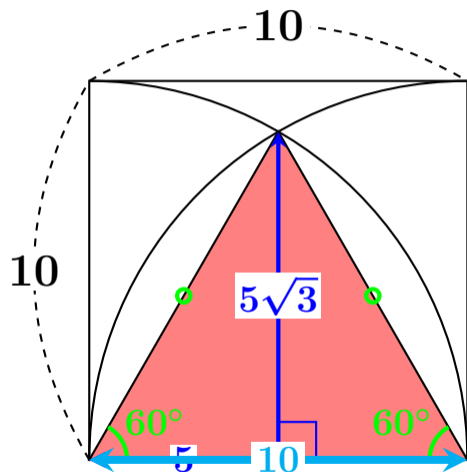


1 : 2 : $\sqrt{3}$ の三角形になる。

面積を求めなさい

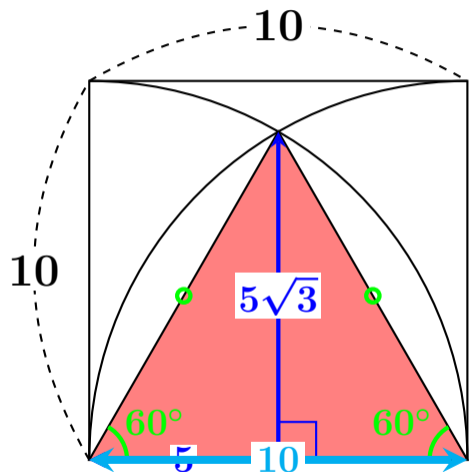


面積を求めなさい



底辺 \times 高さ $\div 2$ より

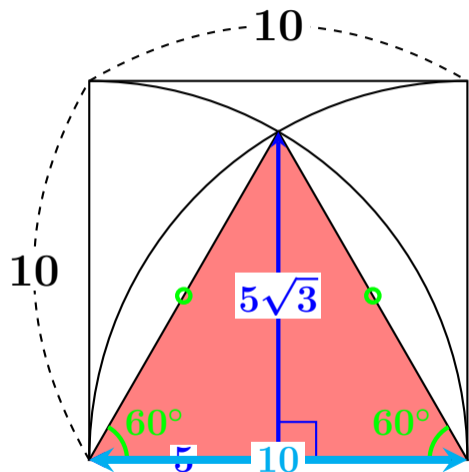
面積を求めなさい



底辺 × 高さ ÷ 2 より
求める面積は

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

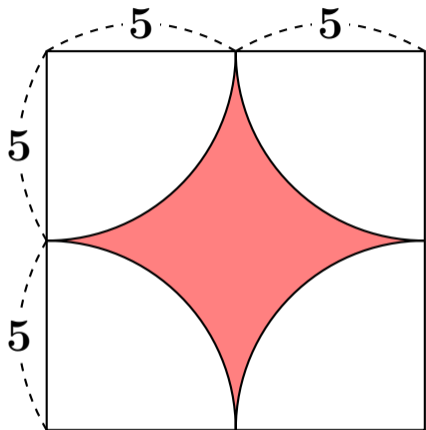
面積を求めなさい



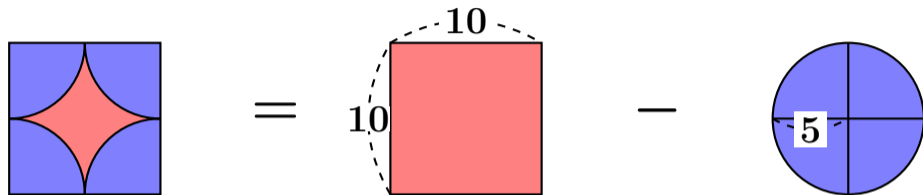
底辺 × 高さ ÷ 2 より
求める面積は

$$10 \times 5\sqrt{3} \div 2 \\ = 25\sqrt{3}$$

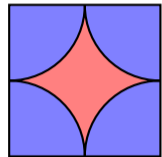
面積を求めなさい



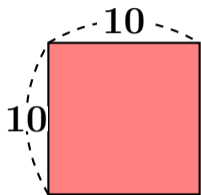
面積を求めなさい



面積を求めなさい



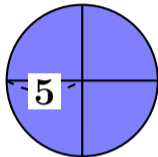
$=$



$=$

100

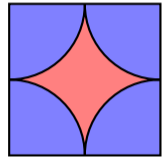
$-$



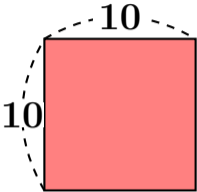
$-$

$\pi \times 5^2$

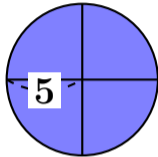
面積を求めなさい



$=$



$-$



$=$

$$100$$

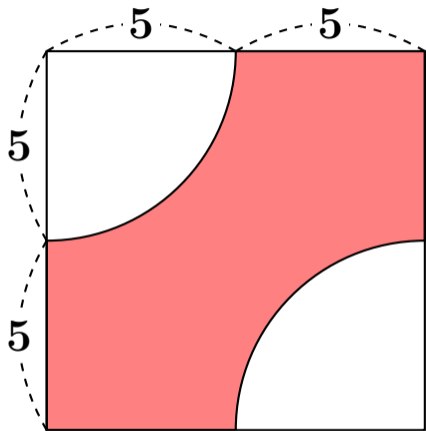
$-$

$$\pi \times 5^2$$

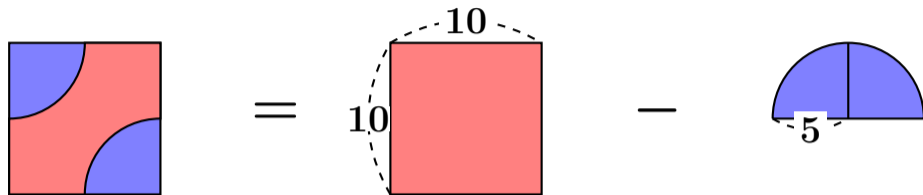
$=$

$$100 - 25\pi$$

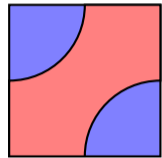
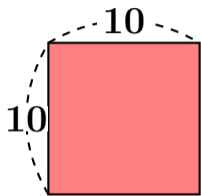
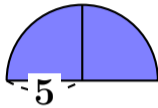
面積を求めなさい



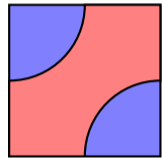
面積を求めなさい



面積を求めなさい


$$=$$

$$-$$

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

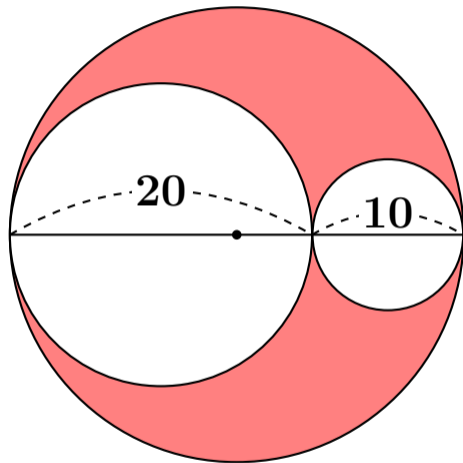
面積を求めなさい



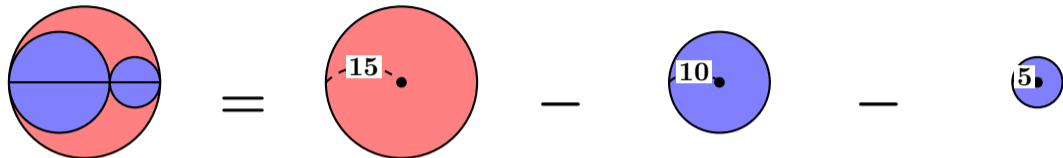
The diagram shows a square with side length 10. Two quarter-circles of radius 5 are drawn in the top-left and bottom-right corners, shaded blue. The remaining area is shaded red.

$$\begin{aligned} &= \text{Area of square} - \text{Area of two quarter-circles} \\ &= 100 - \frac{\pi \times 5^2}{2} \\ &= 100 - \frac{25\pi}{2} \end{aligned}$$

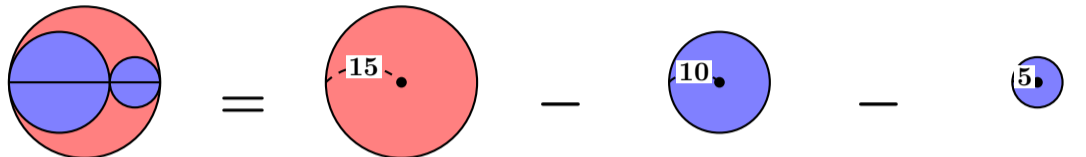
面積を求めなさい



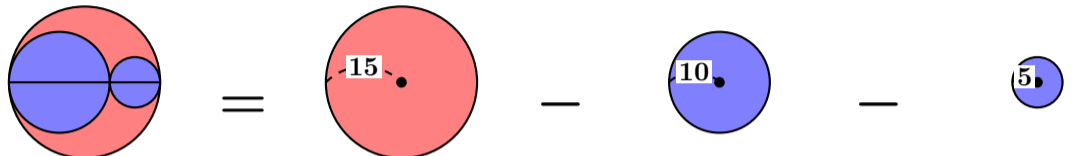
面積を求めなさい



面積を求めなさい


$$\begin{aligned} &= \text{Area of large red circle} - \text{Area of medium blue circle} - \text{Area of small blue circle} \\ &= \pi \times 15^2 - \pi \times 10^2 - \pi \times 5^2 \end{aligned}$$

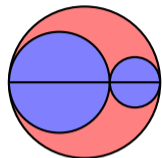
面積を求めなさい



The diagram illustrates the calculation of the area of a red circle with two overlapping blue circles removed. The red circle has a radius of 15. The larger blue circle has a radius of 10, and the smaller blue circle has a radius of 5. The area is calculated as follows:

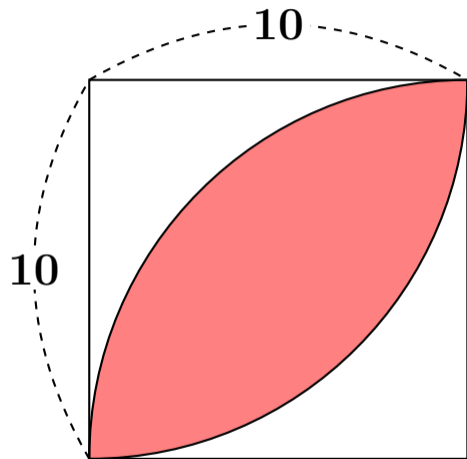
$$\begin{aligned} &= \text{Red Circle} - \text{Large Blue Circle} - \text{Small Blue Circle} \\ &= \pi \times 15^2 - \pi \times 10^2 - \pi \times 5^2 \\ &= 225\pi - 100\pi - 25\pi \end{aligned}$$

面積を求めなさい

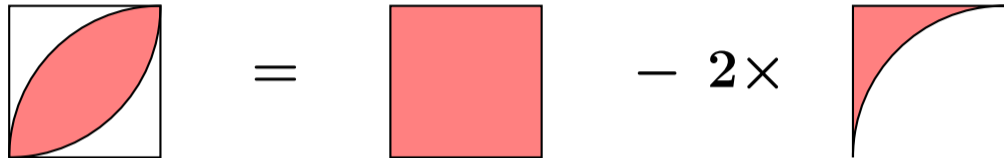


$$\begin{aligned} &= \text{Red Circle (radius 15)} - \text{Blue Circle (radius 10)} - \text{Blue Circle (radius 5)} \\ &= \pi \times 15^2 - \pi \times 10^2 - \pi \times 5^2 \\ &= 225\pi - 100\pi - 25\pi \\ &= 100\pi \end{aligned}$$

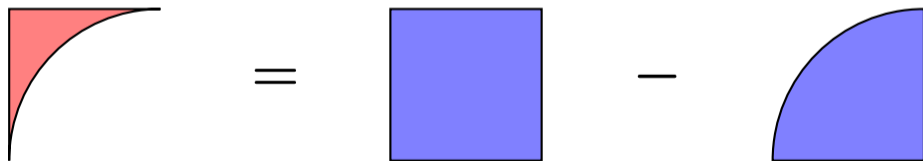
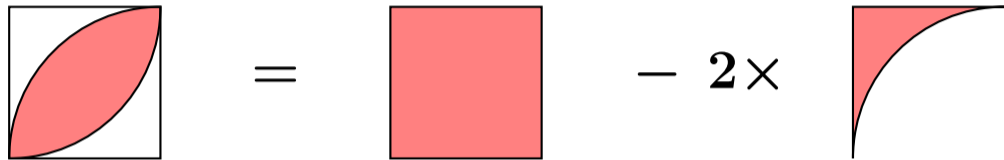
面積を求めなさい



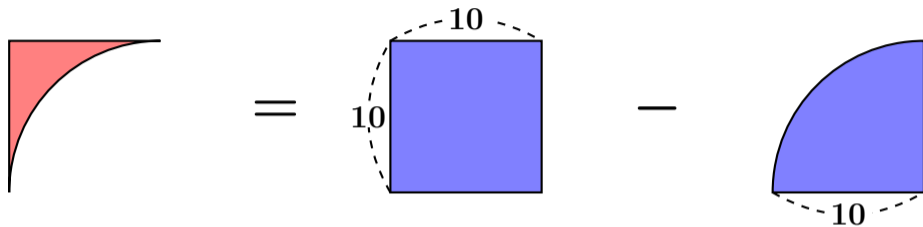
面積を求めなさい



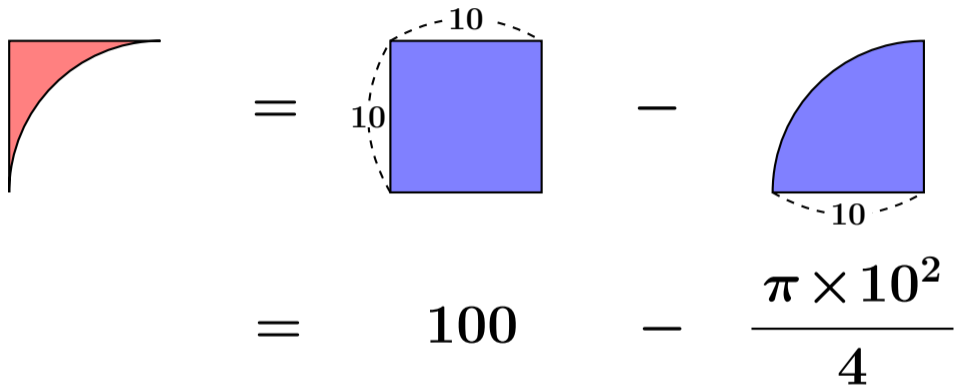
面積を求めなさい



面積を求めなさい



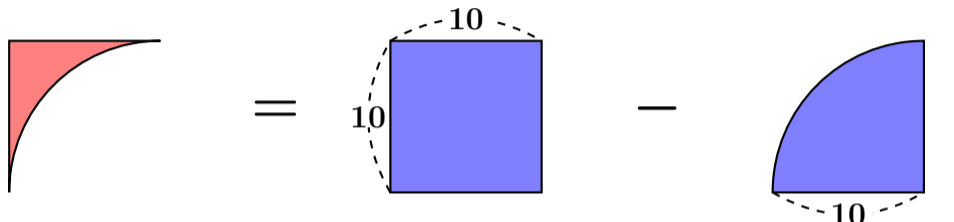
面積を求めなさい



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

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

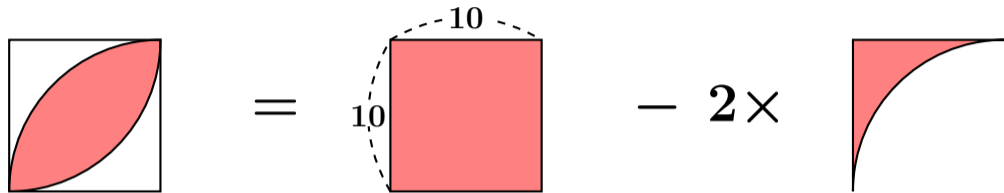
面積を求めなさい



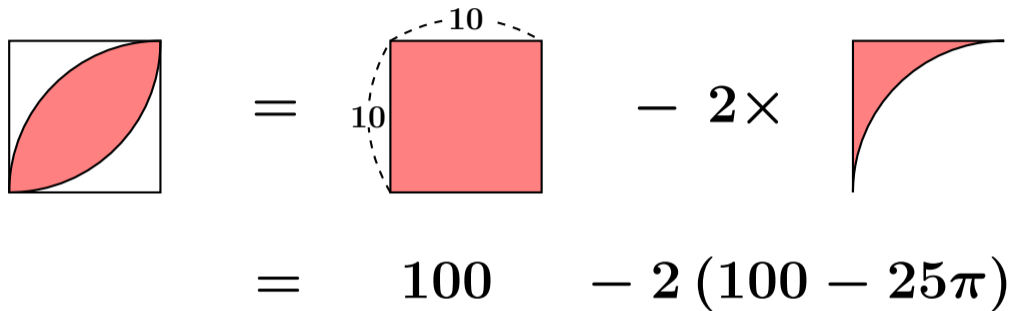
The diagram illustrates the calculation of the area of a quarter-circle sector with radius 10. It is shown as the area of a 10x10 square minus the area of a quarter-circle with radius 10.

$$\begin{aligned} &= 100 - \frac{\pi \times 10^2}{4} \\ &= 100 - 25\pi \end{aligned}$$

面積を求めなさい



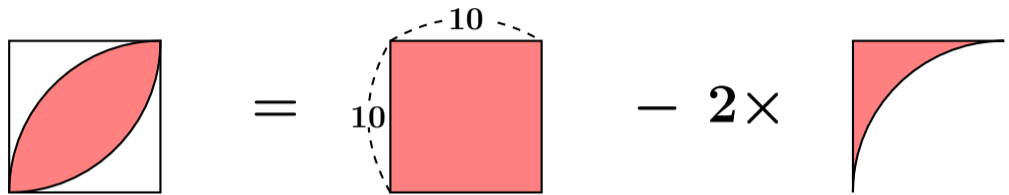
面積を求めなさい



The diagram illustrates the calculation of the area of a lens-shaped region. The lens is formed by two quarter-circles of radius 10, each centered at a corner of a square with side length 10. The area is calculated as the area of the square (100) minus the area of two quarter-circles (2 * (100 - 25π)).

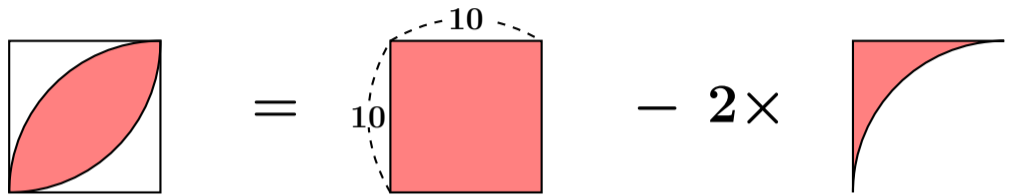
$$\begin{aligned} &= 100 - 2 \times (100 - 25\pi) \end{aligned}$$

面積を求めなさい



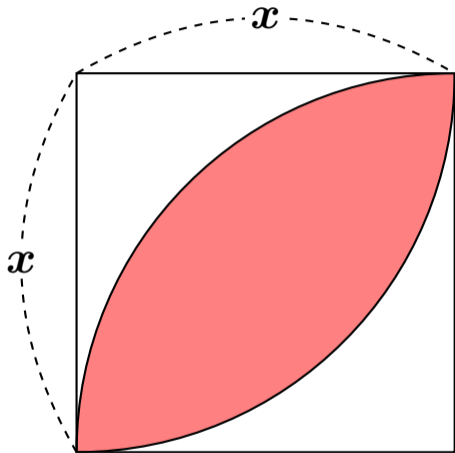
$$\begin{aligned} &= 100 - 2(100 - 25\pi) \\ &= 100 - 200 + 50\pi \end{aligned}$$

面積を求めなさい



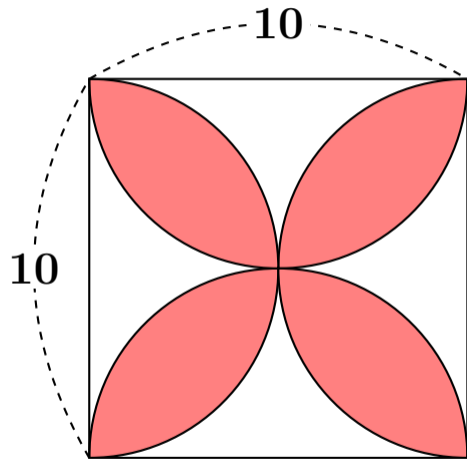
$$\begin{aligned} &= \text{Area of square} - 2 \times \text{Area of quarter-circle} \\ &= 100 - 2(100 - 25\pi) \\ &= 100 - 200 + 50\pi \\ &= 50\pi - 100 \end{aligned}$$

一般化すると下記のようになる

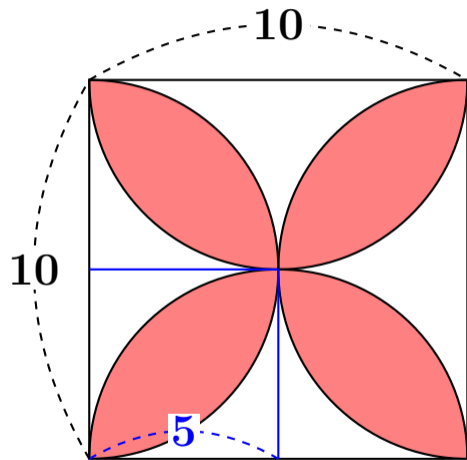


$$\frac{x^2}{2} \pi - x^2$$

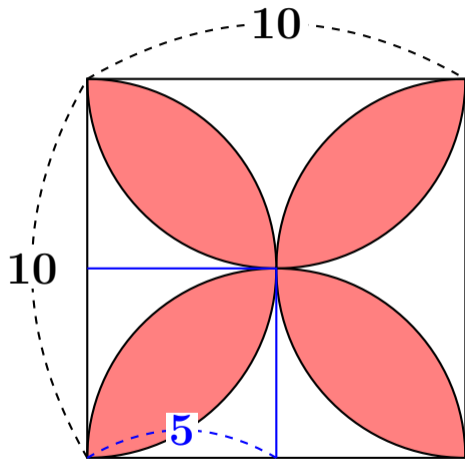
面積を求めなさい



面積を求めなさい

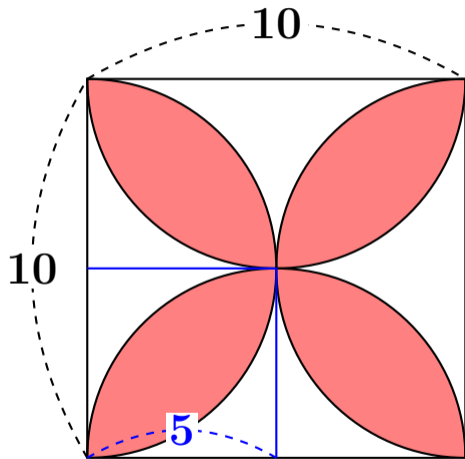


面積を求めなさい



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

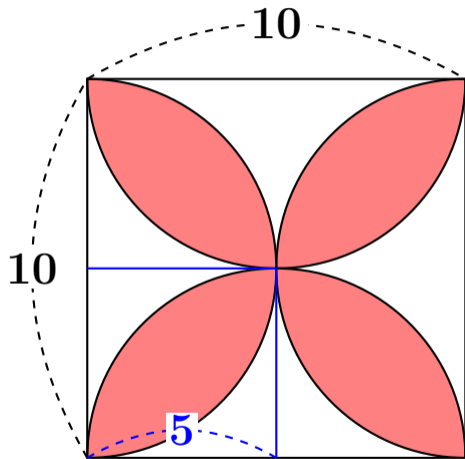
面積を求めなさい



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

$$4 \left(\frac{25}{2} \pi - 25 \right)$$

面積を求めなさい



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

$$4 \left(\frac{25}{2} \pi - 25 \right) \\ = 50\pi - 100$$