

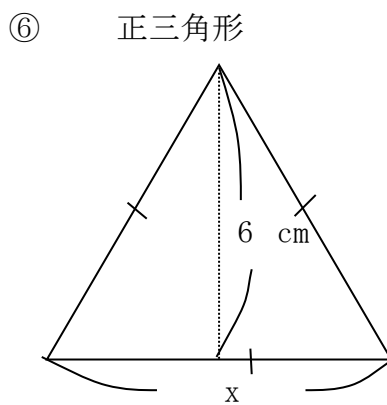
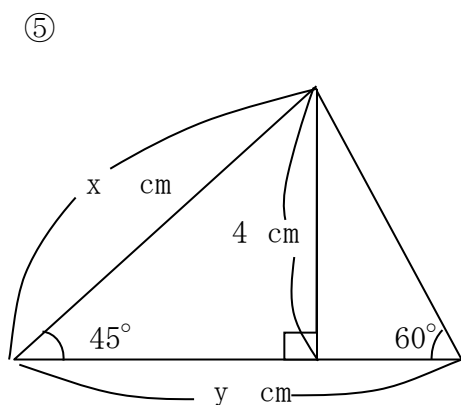
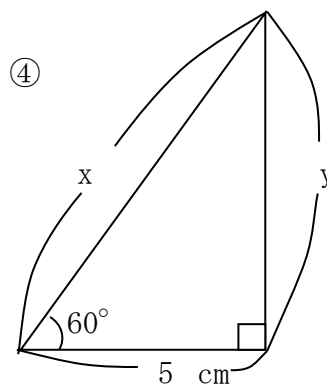
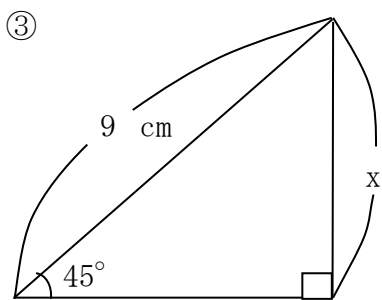
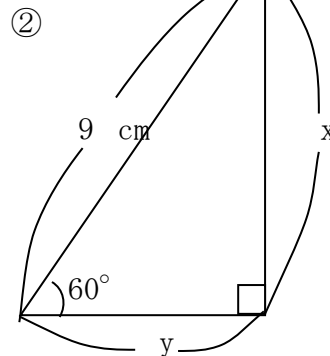
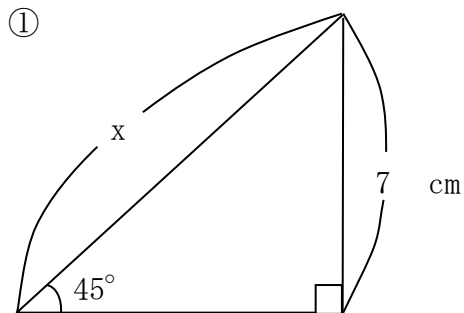
特別の三角形な三平方辺の比1

NO. 2

名前

6 点

1 次 x, y のの値を求めよ。



解答

$$\boxed{2} \quad \textcircled{1} \quad \begin{array}{l} \sqrt{2} : 1 = x : 7 \\ x = 7\sqrt{2} \end{array}$$

$$\textcircled{2} \quad \begin{array}{l} 2 : \sqrt{3} = 9 : x \\ 2x = 9\sqrt{3} \\ x = \frac{9\sqrt{3}}{2} \end{array}$$

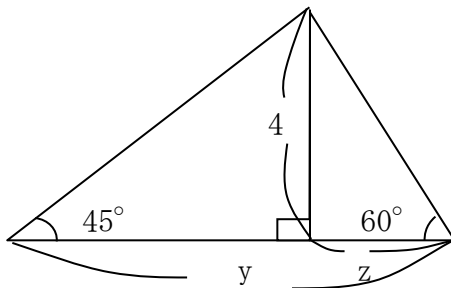
$$\begin{array}{l} 2 : 1 = 9 : y \\ 2y = 9 \\ y = \frac{9}{2} \end{array}$$

$$\textcircled{3} \quad \begin{array}{l} \sqrt{2} : 1 = 9 : x \\ \sqrt{2}x = 9 \\ x = \frac{9}{\sqrt{2}} = \frac{9\sqrt{2}}{2} \end{array}$$

$$\textcircled{4} \quad \begin{array}{l} 2 : 1 = x : 5 \\ x = 10 \\ 1 : \sqrt{3} = 5 : y \\ y = 5\sqrt{3} \end{array}$$

$$\textcircled{5} \quad \begin{array}{l} \sqrt{2} : 1 = x : 4 \\ x = 4\sqrt{2} \end{array}$$

$$\textcircled{6} \quad \frac{x}{2} = y \quad \text{とおく}$$



$$\begin{array}{l} \sqrt{3} : 1 = 6 : y \\ \sqrt{3}y = 6 \\ y = \frac{6}{\sqrt{3}} \\ y = 2\sqrt{3} \\ x = 2 \times 2\sqrt{3} \\ = 4\sqrt{3} \end{array}$$

図の部分をもzとおく

$$\begin{array}{l} \sqrt{3} : 1 = 4 : z \\ \sqrt{3}z = 4 \\ z = \frac{4}{\sqrt{3}} = \frac{4\sqrt{3}}{3} \\ y = 4\sqrt{2} + \frac{4\sqrt{3}}{3} \end{array}$$