

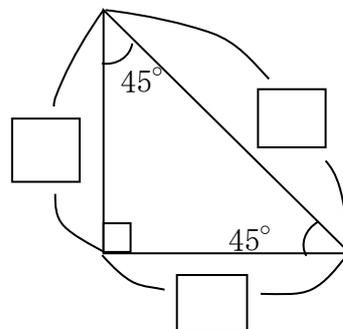
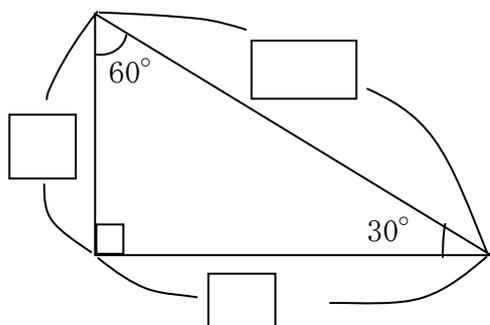
特別の三角形な三平方辺の比1-1

NO. 1

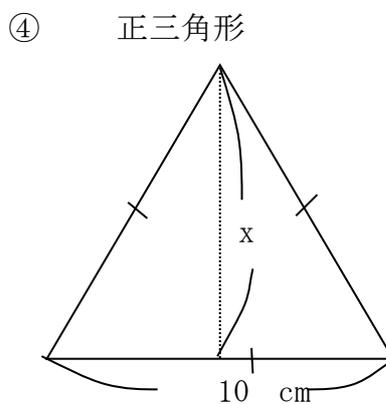
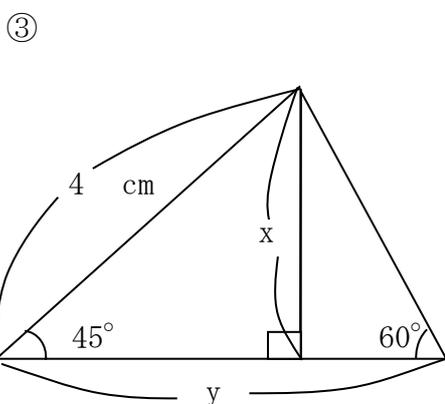
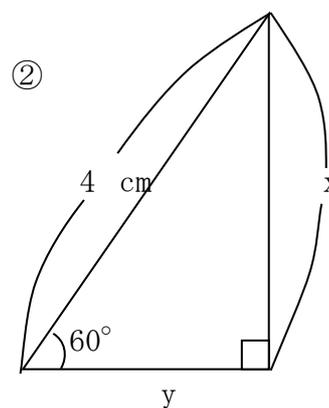
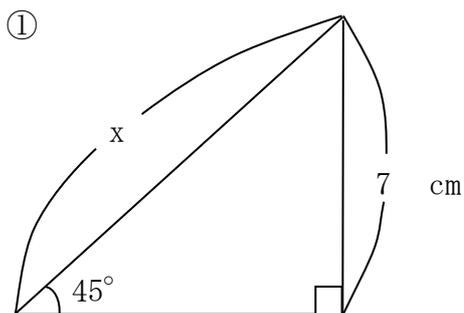
名前

6 点

1 次の直角三角形の長さの比を口に書き入れなさい。

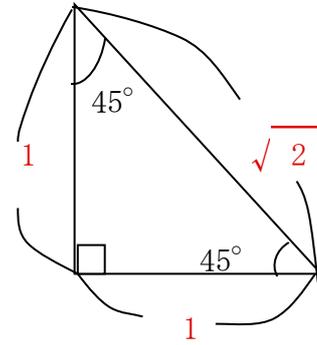
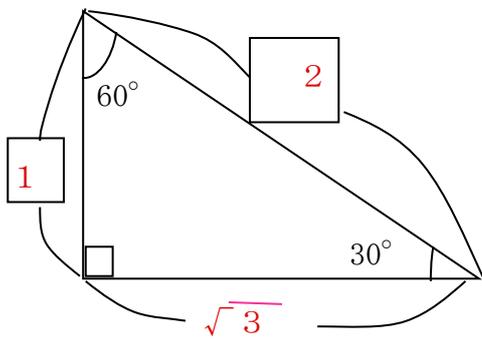


2 次の x、y の の値を求めよ。



解答

1



2

①

$$\sqrt{2} : 1 = x : \frac{7}{\sqrt{2}}$$

$$x = 7 \sqrt{\frac{1}{2}}$$

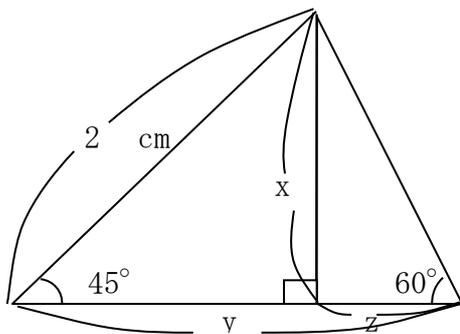
③

$$\sqrt{2} : 1 = 4 : x$$

$$\sqrt{2} x = 4$$

$$x = \frac{4}{\sqrt{2}}$$

$$x = 2 \sqrt{\frac{1}{2}}$$



②

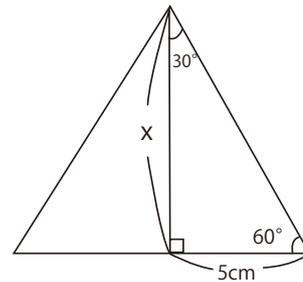
$$2 : \sqrt{3} = 4 : \frac{x}{\sqrt{3}}$$

$$x = 2 \sqrt{3}$$

$$2 : 1 = 4 : y$$

$$y = 2$$

④



$$1 : \sqrt{3} = 5 : \frac{x}{\sqrt{3}}$$

$$x = 5 \sqrt{3}$$

図の部分をzとおく

$$\frac{\sqrt{3}}{\sqrt{3}} : 1 = \frac{2\sqrt{2}}{2\sqrt{2}} : z$$

$$\sqrt{3} z = \frac{2\sqrt{2}}{\sqrt{3}}$$

$$z = \frac{2\sqrt{2}}{\sqrt{3}}$$

$$z = \frac{2\sqrt{6}}{3}$$

$$y = 2\sqrt{2} + \frac{2\sqrt{6}}{3}$$