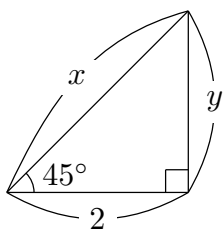


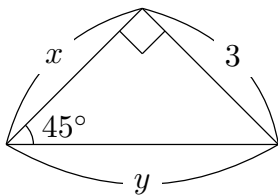
問題

問題 1. 下の図で、 x, y の値をそれぞれ求めなさい。

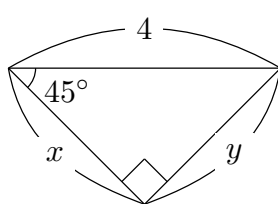
(1)



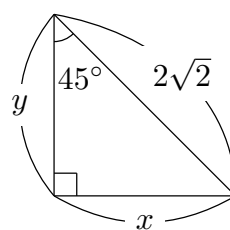
(2)



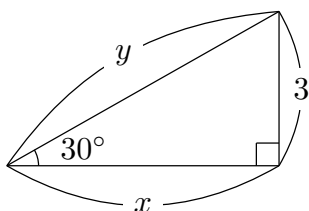
(3)



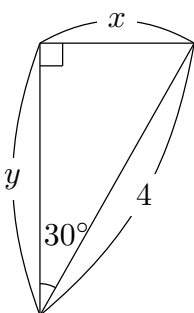
(4)



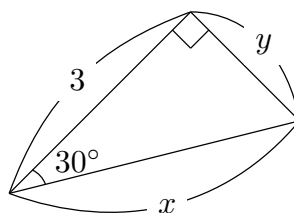
(5)



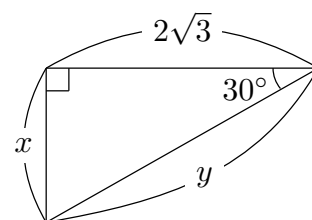
(6)



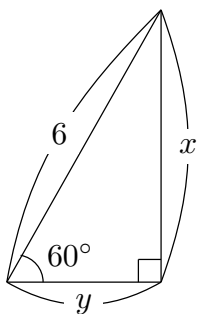
(7)



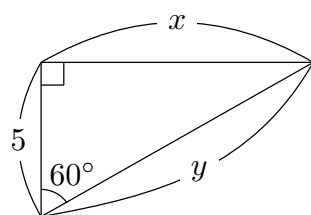
(8)



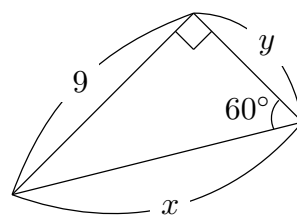
(9)



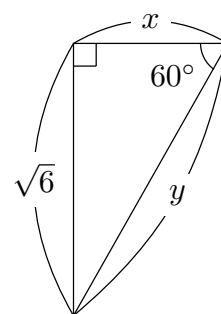
(10)



(11)



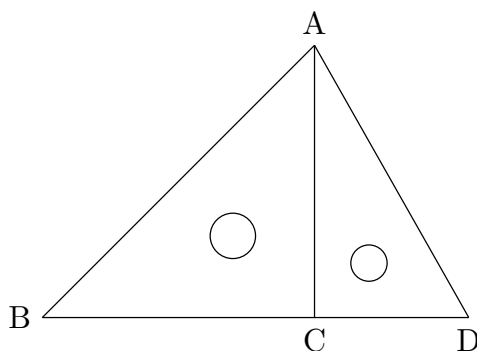
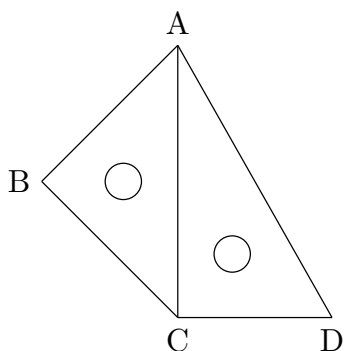
(12)



問題 2. 下の図は、三角定規を 2 つ重ねたものです。次の条件のとき、残りの辺の長さを求めなさい。ただし、三角定規は、実際のサイズとは違うものとします。

(1) $AC=18$

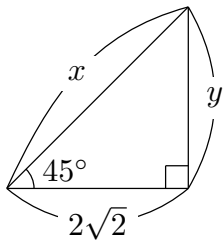
(2) $AB=\sqrt{6}$



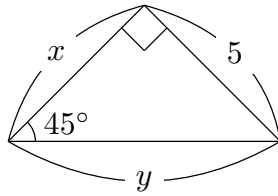
練習

練習 1. 下の図で、 x, y の値をそれぞれ求めなさい。

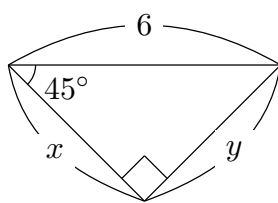
(1)



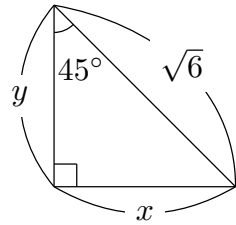
(2)



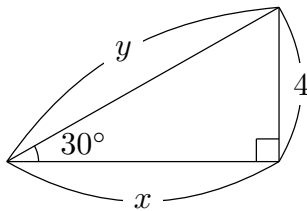
(3)



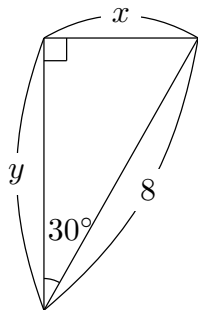
(4)



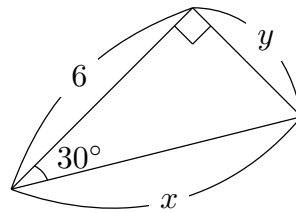
(5)



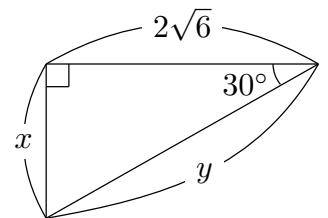
(6)



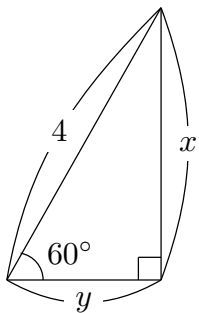
(7)



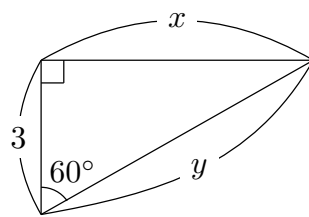
(8)



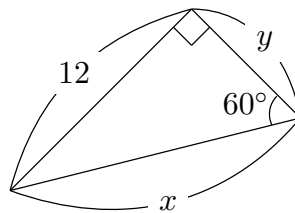
(9)



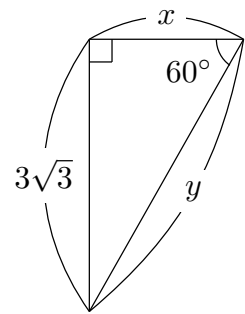
(10)



(11)



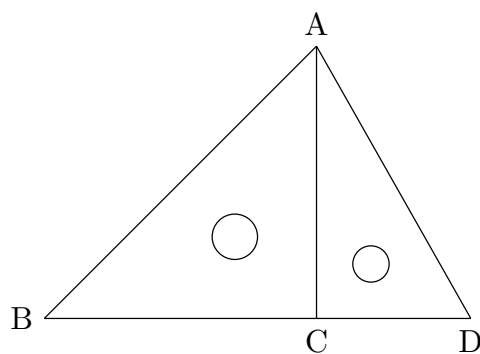
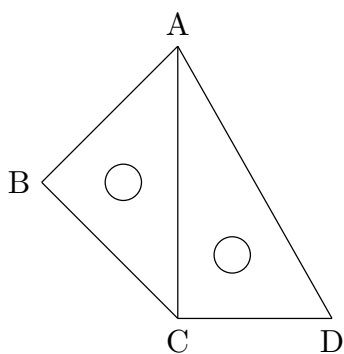
(12)



練習 2. 下の図は、三角定規を 2 つ重ねたものです。次の条件のとき、残りの辺の長さを求めなさい。ただし、三角定規は、実際のサイズとは違うものとします。

(1) $AC=24$

(2) $AB=6$



解答

問題 1.

- (1) $x = 2\sqrt{2}, y = 2$ (2) $x = 3, y = 3\sqrt{2}$ (3) $x = 2\sqrt{2}, y = 2\sqrt{2}$ (4) $x = 2, y = 2$
(5) $x = 3\sqrt{3}, y = 6$ (6) $x = 2, y = 2\sqrt{3}$ (7) $x = 2\sqrt{3}, y = \sqrt{3}$ (8) $x = 2, y = 4$
(9) $x = 3\sqrt{3}, y = 3$ (10) $x = 5\sqrt{3}, y = 10$ (11) $x = 6\sqrt{3}, y = 3\sqrt{3}$
(12) $x = \sqrt{2}, y = 2\sqrt{2}$

問題 2.

- (1) $AB = 9\sqrt{2}, BC = 9\sqrt{2}, AD = 12\sqrt{3}, CD = 6\sqrt{3}$
(2) $AC = \sqrt{3}, BC = \sqrt{3}, CD = 1, AD = 2$

練習 1.

- (1) $x = 4, y = 2\sqrt{2}$ (2) $x = 5, y = 5\sqrt{2}$ (3) $x = 3\sqrt{2}, y = 3\sqrt{2}$
(4) $x = \sqrt{3}, y = \sqrt{3}$ (5) $x = 4\sqrt{3}, y = 8$ (6) $x = 4, y = 4\sqrt{3}$
(7) $x = 4\sqrt{3}, y = 2\sqrt{3}$ (8) $x = 2\sqrt{2}, y = 4\sqrt{2}$ (9) $x = 2\sqrt{3}, y = 2$
(10) $x = 3\sqrt{3}, y = 6$ (11) $x = 8\sqrt{3}, y = 4\sqrt{3}$ (12) $x = 3, y = 6$

練習 2.

- (1) $AB = 12\sqrt{2}, BC = 12\sqrt{2}, AD = 16\sqrt{3}, CD = 8\sqrt{3}$
(2) $AC = 3\sqrt{2}, BC = 3\sqrt{2}, CD = \sqrt{6}, AD = 2\sqrt{6}$