

1. 二次方程式の復習①

1 次の二次方程式を解きなさい。

$$\textcircled{1} \quad 3^2 + x^2 = 5$$

$$\textcircled{2} \quad x^2 + 1^2 = 3^2$$

$$\textcircled{3} \quad 2^2 + 4^2 = x^2$$

$$\textcircled{4} \quad (\sqrt{3})^2 + x^2 = (2\sqrt{3})^2$$

$$\textcircled{5} \quad 24^2 + x^2 = 25^2$$

2 次の二次方程式を解きなさい。

$$\textcircled{1} \quad x^2 + 12^2 = 13^2$$

$$\textcircled{2} \quad 2^2 + x^2 = 3^2$$

$$\textcircled{3} \quad 9^2 + 12^2 = x^2$$

$$\textcircled{4} \quad (\sqrt{5})^2 + x^2 = (3\sqrt{5})^2$$

$$\textcircled{5} \quad (3\sqrt{2})^2 + 6^2 = x^2$$

2. 二次方程式の復習②

1 次の二次方程式を解きなさい。

$$\textcircled{1} \quad 6^2 + x^2 = 10^2$$

$$\textcircled{2} \quad x^2 + 2^2 = 4^2$$

$$\textcircled{3} \quad 3^2 + 6^2 = x^2$$

$$\textcircled{4} \quad (\sqrt{2})^2 + x^2 = 3^2$$

$$\textcircled{5} \quad (4\sqrt{2})^2 + (2\sqrt{3})^2 = x^2$$

2 次の二次方程式を解きなさい。

$$\textcircled{1} \quad x^2 + 15^2 = 17^2$$

$$\textcircled{2} \quad 2^2 + 3^2 = x^2$$

$$\textcircled{3} \quad 15^2 + x^2 = 25^2$$

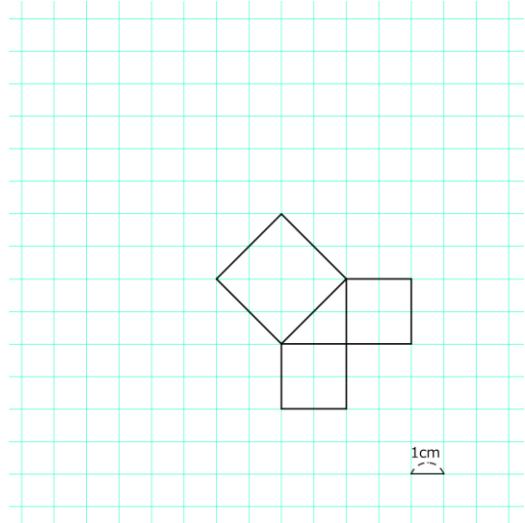
$$\textcircled{4} \quad (\sqrt{6})^2 + x^2 = (2\sqrt{6})^2$$

$$\textcircled{5} \quad (2\sqrt{5})^2 + (2\sqrt{2})^2 = x^2$$

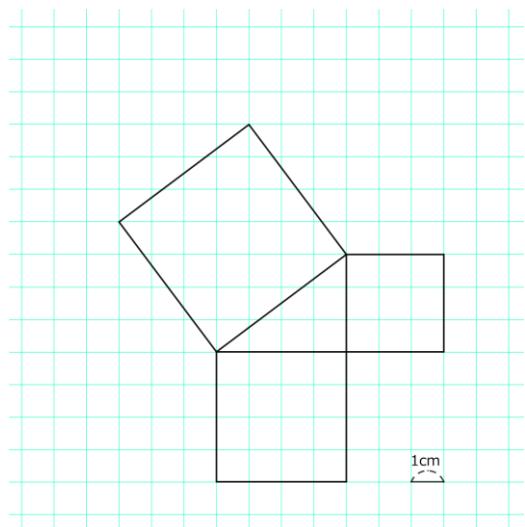
3. 正方形の面積

- 1 3つの正方形の面積を求め、直角三角形の斜辺の長さを求めなさい。

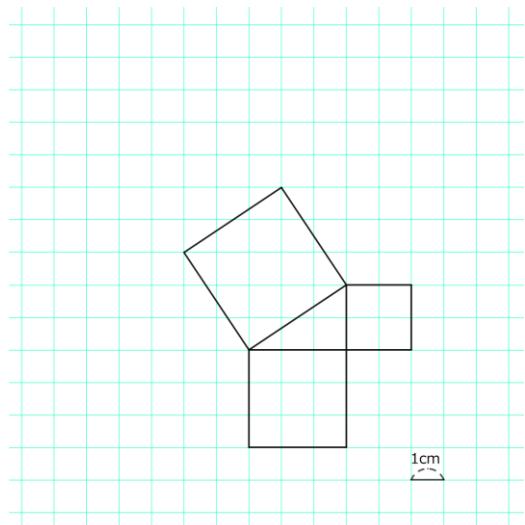
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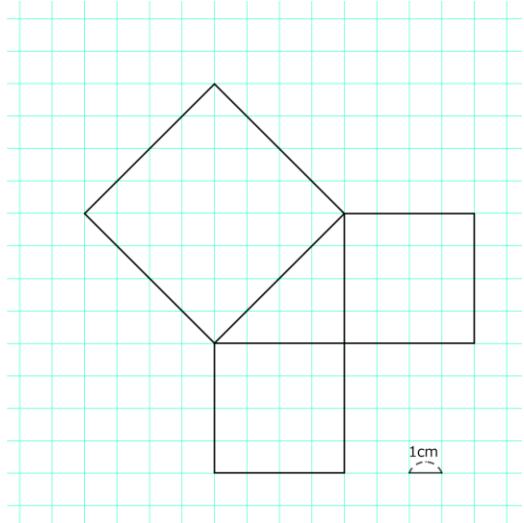


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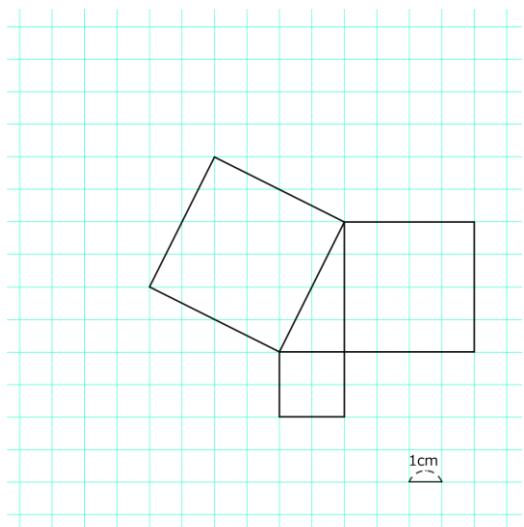


- 2 3つの正方形の面積を求め、直角三角形の斜辺の長さを求めなさい。

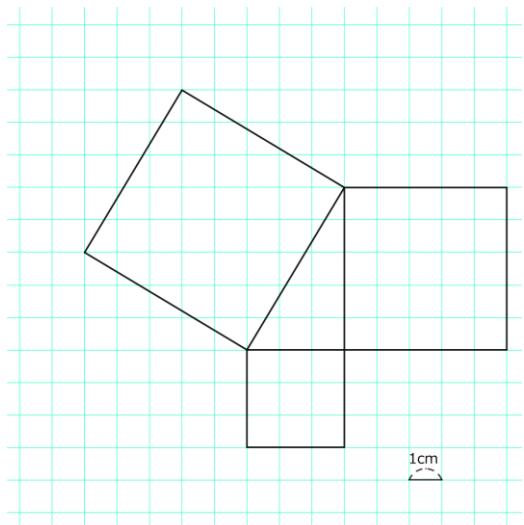
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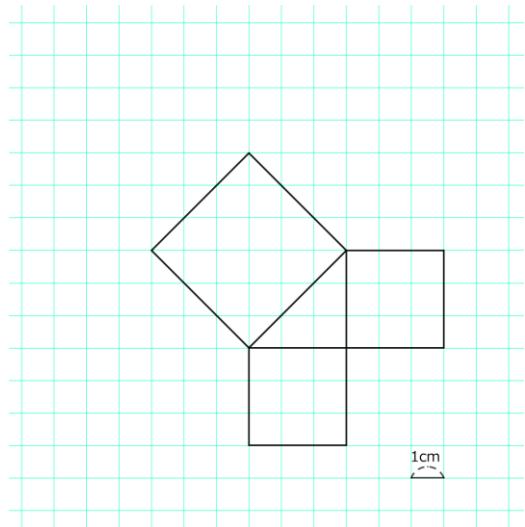


4. 正方形の面積

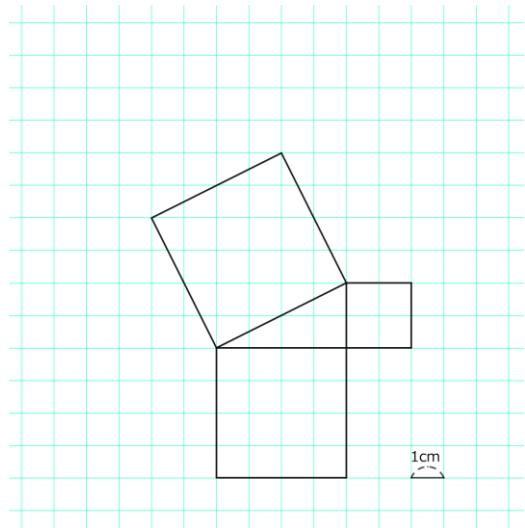
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3つの正方形の面積を求め、
直角三角形の斜辺の長さを求めなさい。

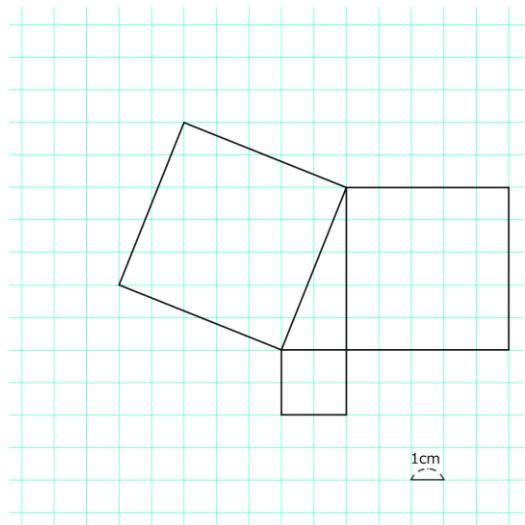
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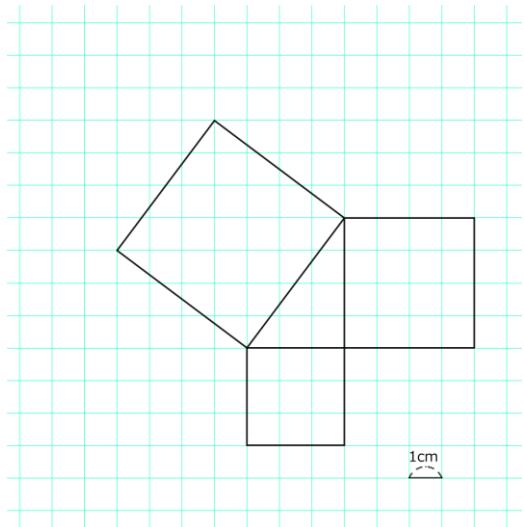
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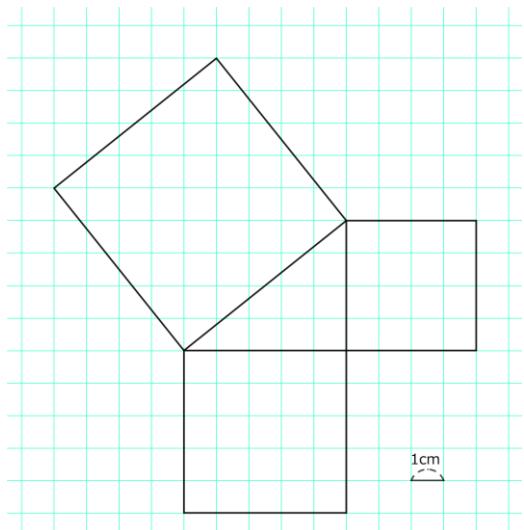
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3つの正方形の面積を求め、
直角三角形の斜辺の長さを求めなさい。

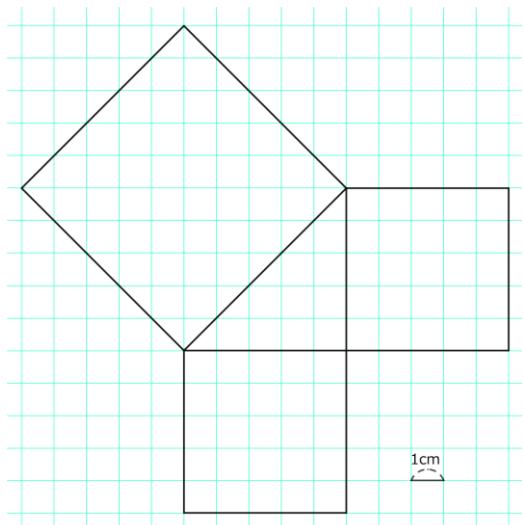
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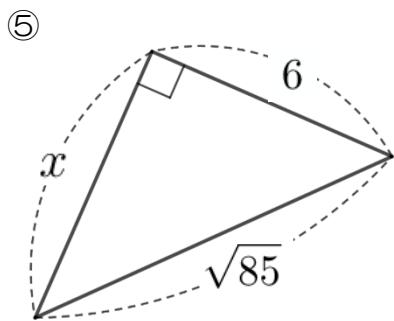
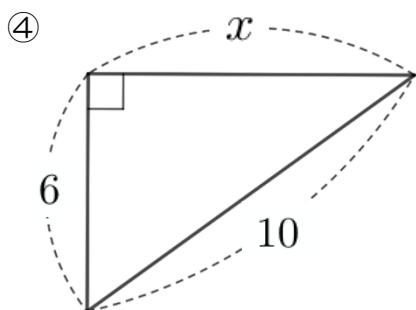
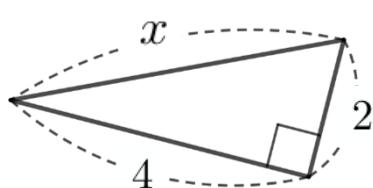
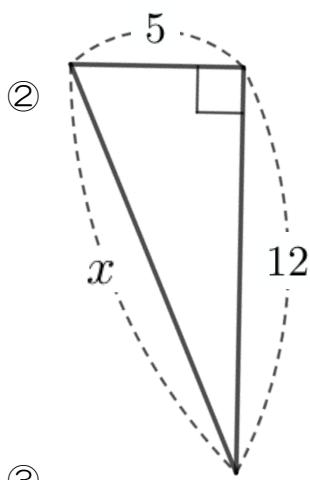
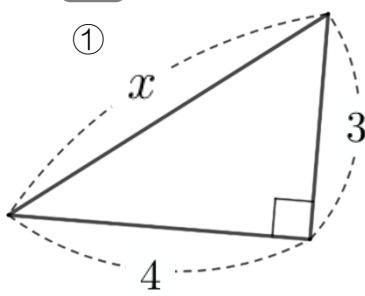
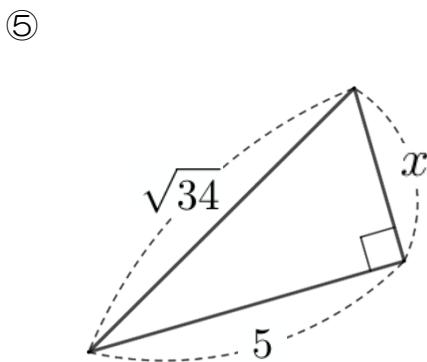
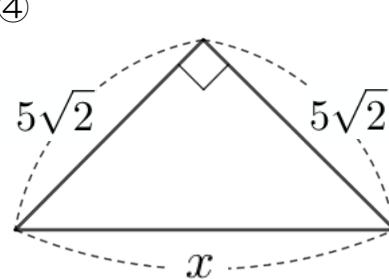
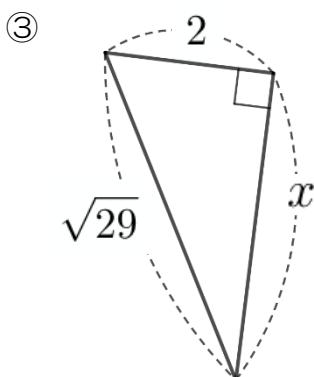
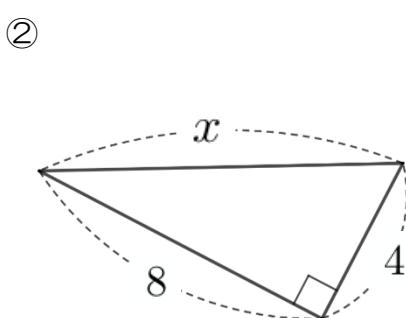
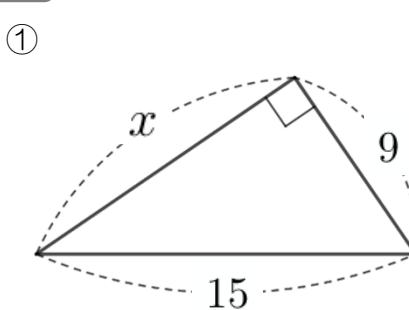
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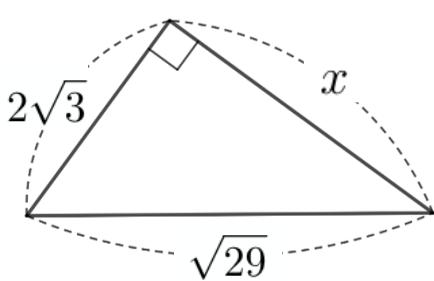
5. 三平方の定理①

1 x の値を求めなさい。2 x の値を求めなさい。

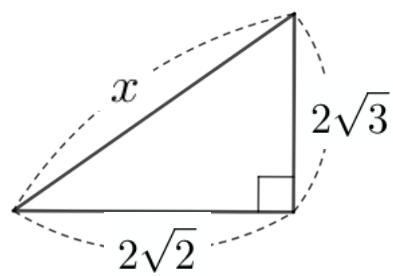
6. 三平方の定理②

1 x の値を求めなさい。

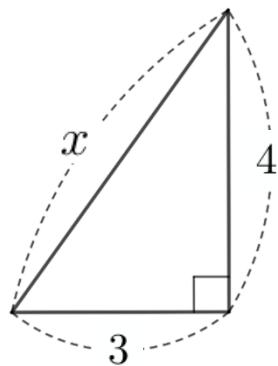
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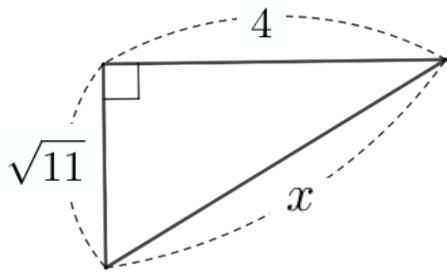
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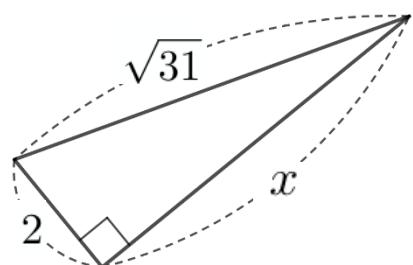
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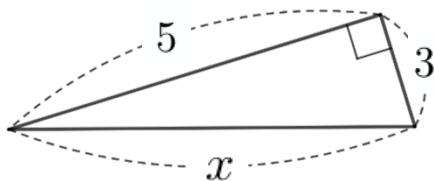
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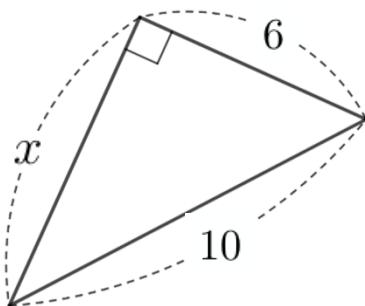
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2 x の値を求めなさい。

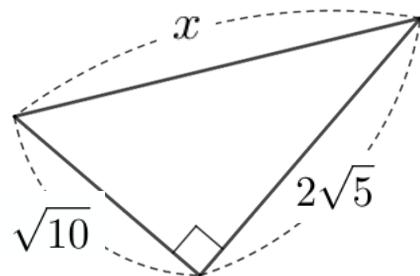
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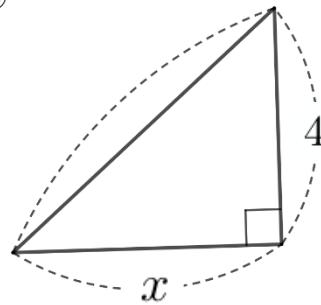
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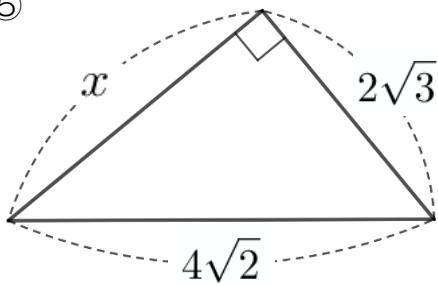
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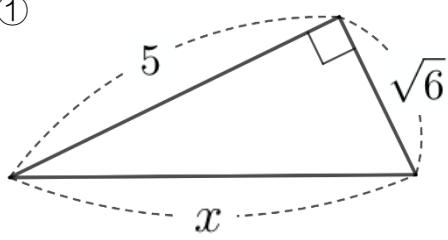
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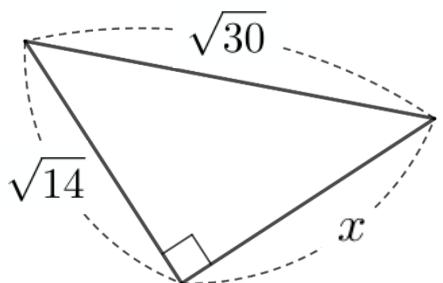
7. 三平方の定理③

1 x の値を求めなさい。

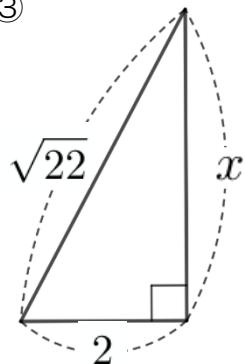
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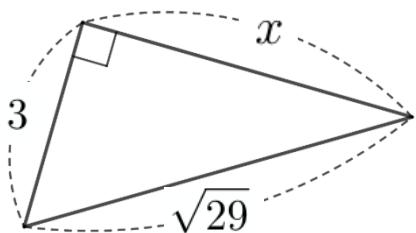
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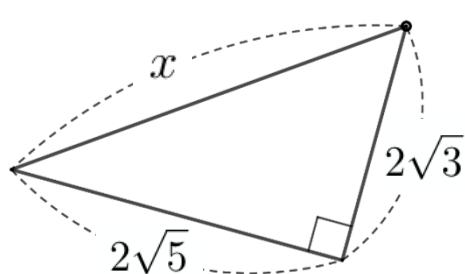
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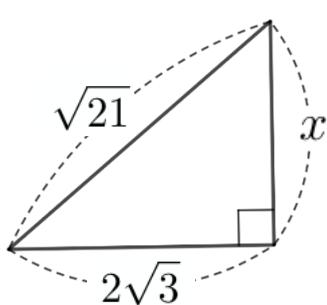
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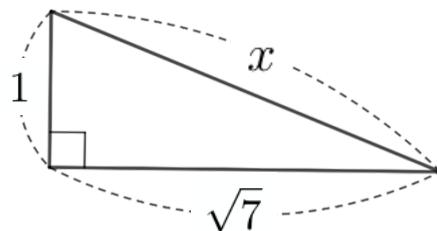
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2 x の値を求めなさい。

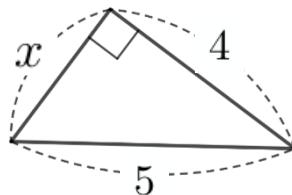
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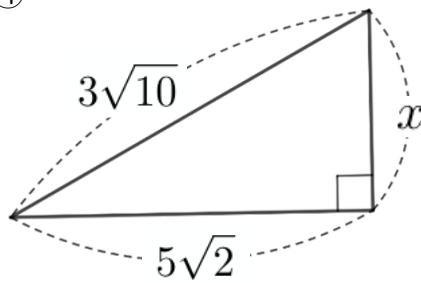
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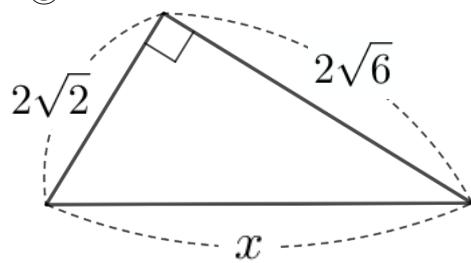
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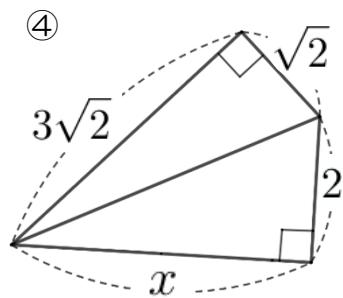
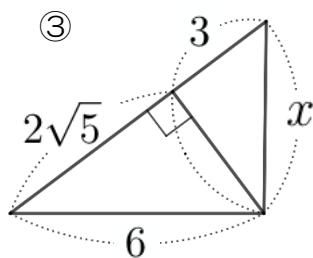
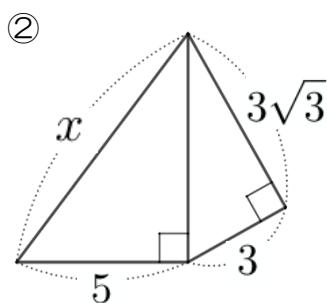
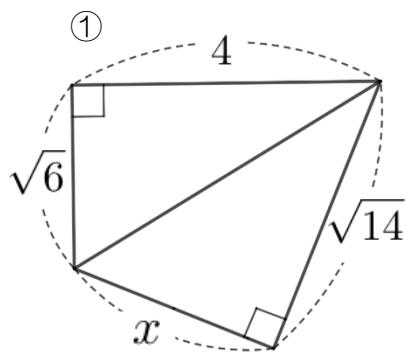
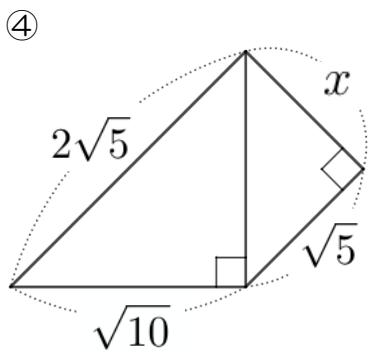
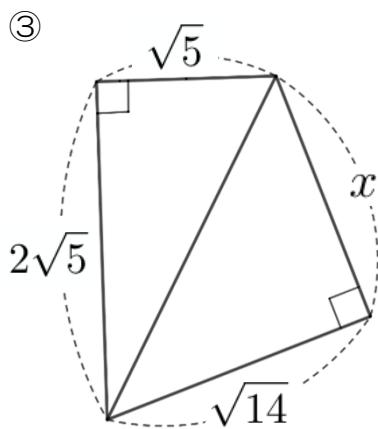
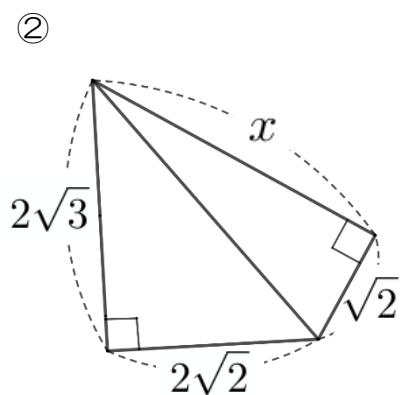
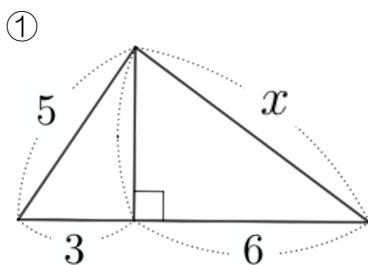
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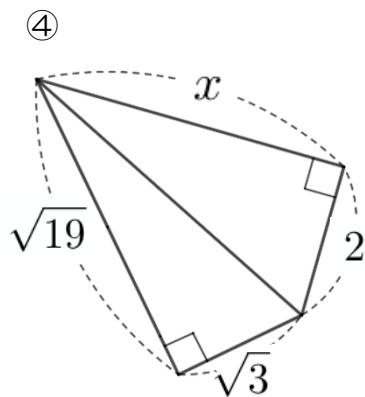
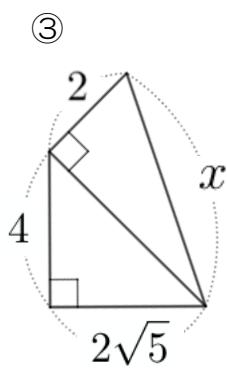
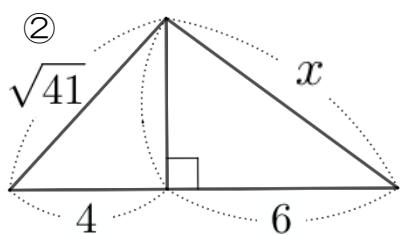
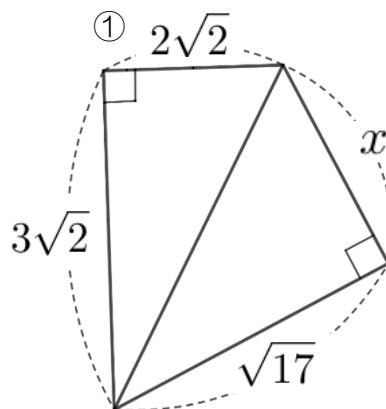
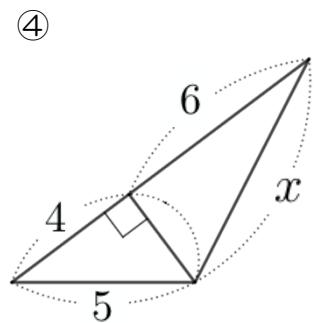
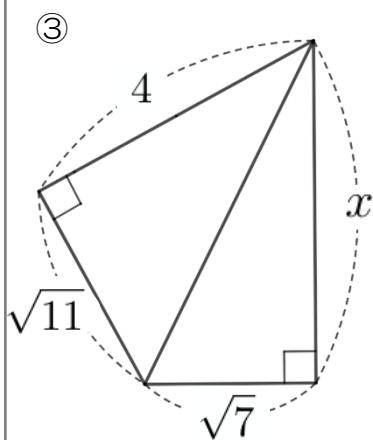
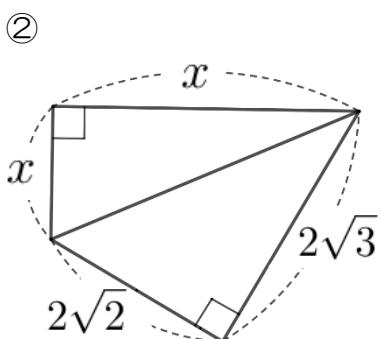
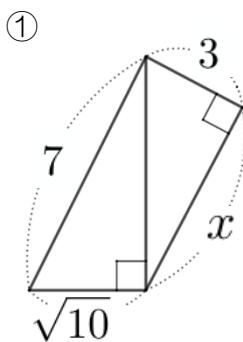
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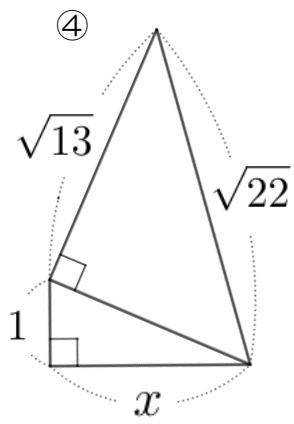
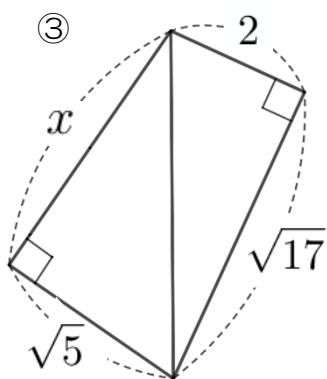
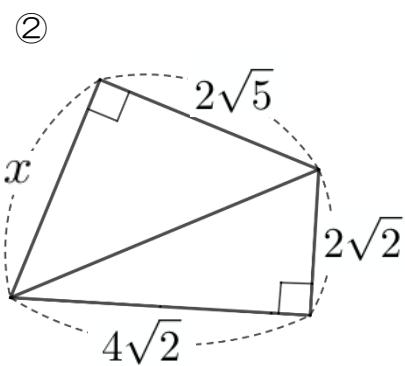
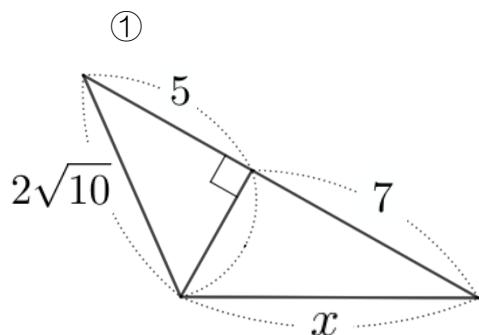
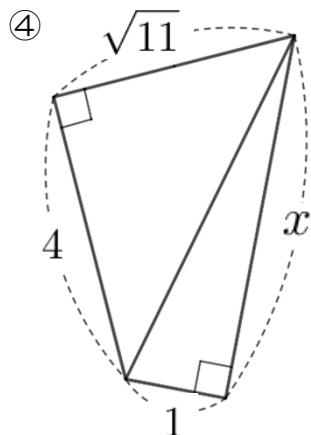
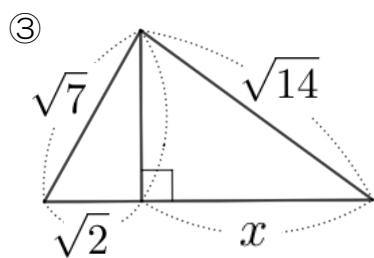
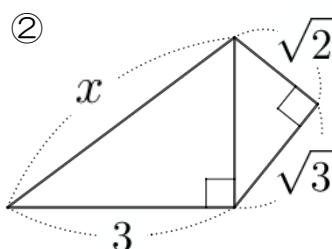
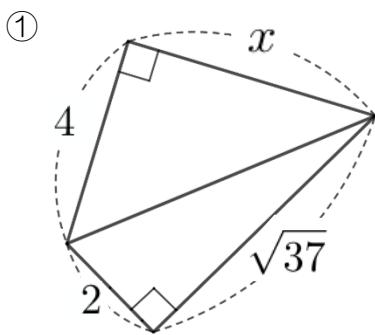
8. 2つの三角形①

1 x の値を求めなさい。2 x の値を求めなさい。

9. 2つの三角形②

1 x の値を求めなさい。2 x の値を求めなさい。

10. 2つの三角形③

1 x の値を求めなさい。2 x の値を求めなさい。

11. 三平方の定理の逆①

1 3つの辺の長さからから、直角三角形であるか判別しなさい。

① 3 cm 、 4 cm 、 5 cm

② 2 cm 、 3 cm 、 $\sqrt{5}$ cm

③ 10 cm 、 24 cm 、 25 cm

④ $\sqrt{6}$ cm 、 $2\sqrt{5}$ cm 、 $\sqrt{15}$ cm

⑤ $5\sqrt{2}$ cm 、 $2\sqrt{10}$ cm 、 $3\sqrt{10}$ cm

2 直角三角形の2つの辺の長さから、残りの辺の長さを求めなさい。

① 4 cm 、 5 cm

② 5 cm 、 12 cm

③ 6 cm 、 3 cm

④ 4 cm 、 $4\sqrt{2}$ cm

12. 三平方の定理の逆②

1 3つの辺の長さからから、直角三角形であるか判別しなさい。

① 5 cm, 12 cm, 13 cm

② 12 cm, 16 cm, 21 cm

③ 6 cm, 8 cm, 10 cm

④ $\sqrt{2}$ cm, $2\sqrt{5}$ cm, $3\sqrt{2}$ cm

⑤ $\sqrt{15}$ cm, $2\sqrt{2}$ cm, $2\sqrt{6}$ cm

2 直角三角形の2つの辺の長さから、残りの辺の長さを求めなさい。

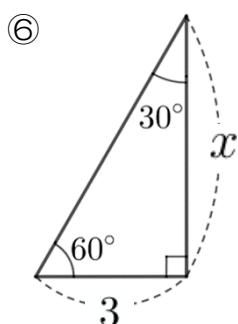
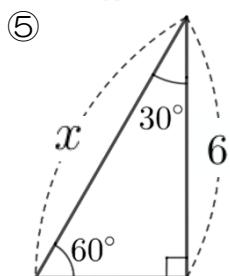
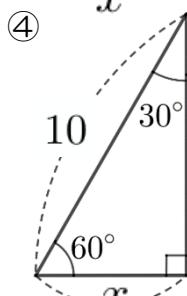
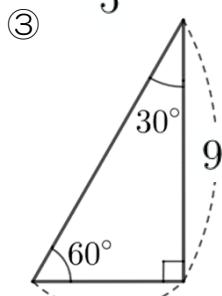
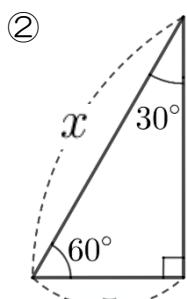
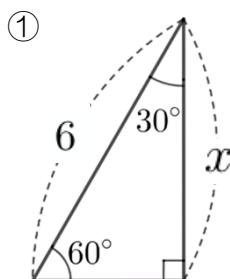
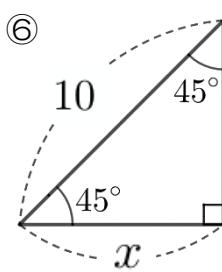
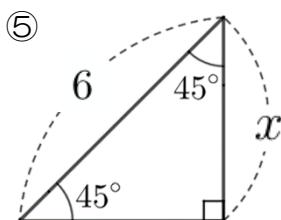
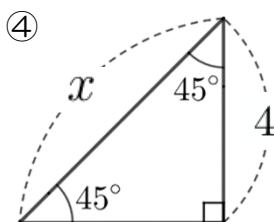
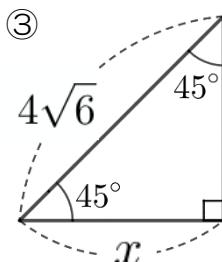
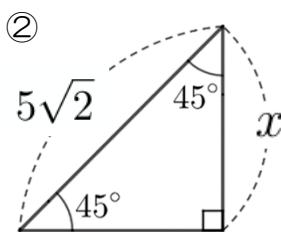
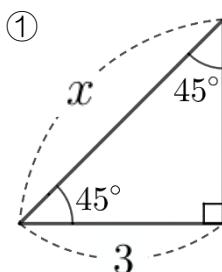
① 3 cm, 4 cm

② 8 cm, 15 cm

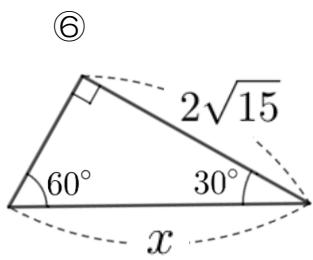
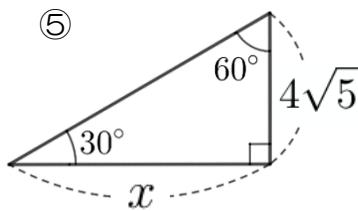
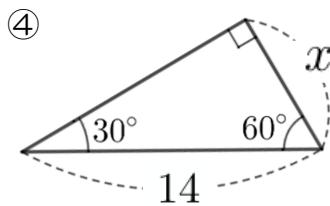
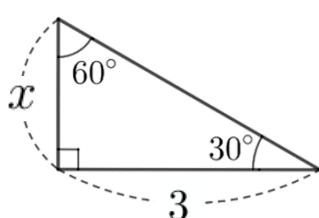
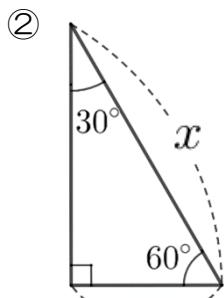
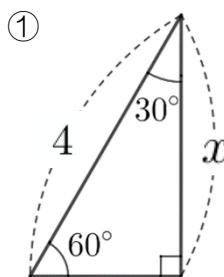
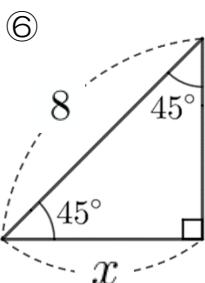
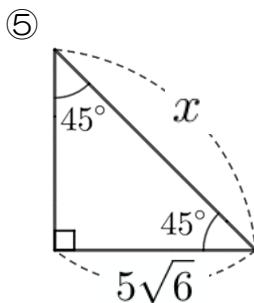
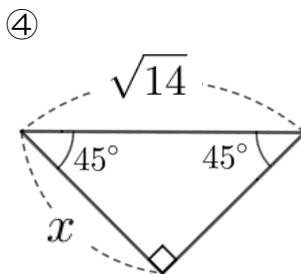
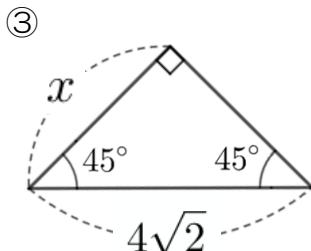
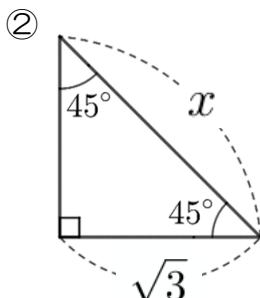
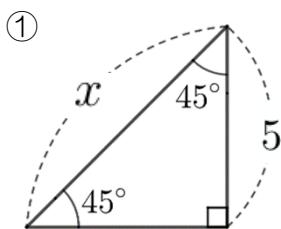
③ $3\sqrt{2}$ cm, $2\sqrt{3}$ cm

④ 5 cm, $5\sqrt{2}$ cm

13. 特別な角 (基礎)

1 x の値を求めなさい。2 x の値を求めなさい。

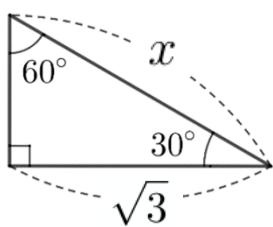
14. 特別な角 (いろいろな向き)

1 x の値を求めなさい。2 x の値を求めなさい。

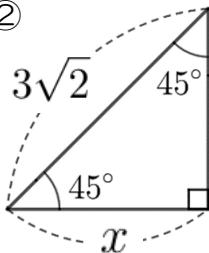
15. 特別な角 (演習) ①

1 x の値を求めなさい。

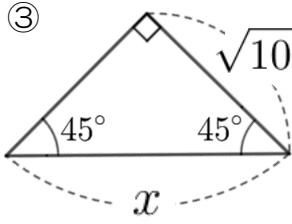
①



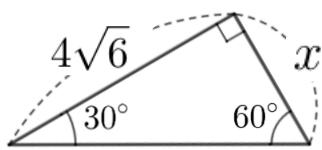
②



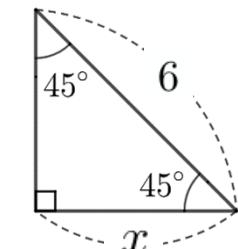
③



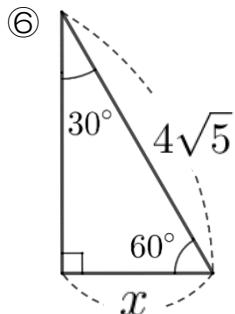
④



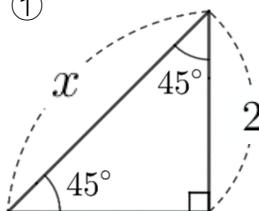
⑤



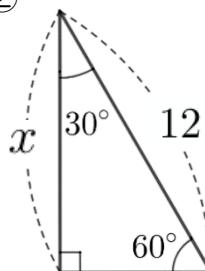
⑥

2 x の値を求めなさい。

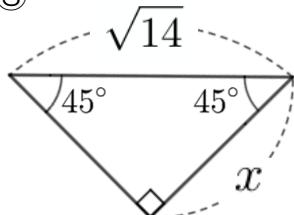
①



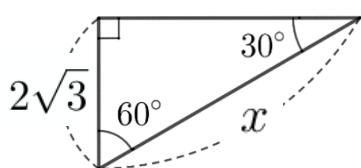
②



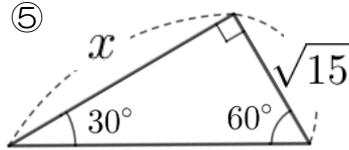
③



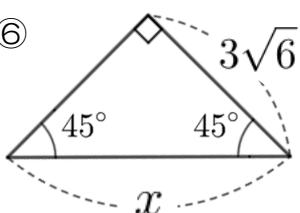
④



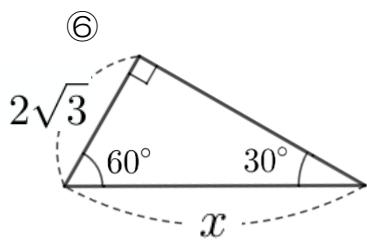
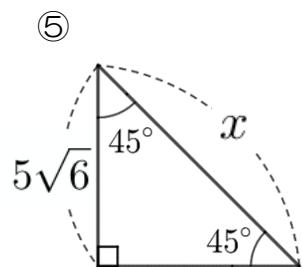
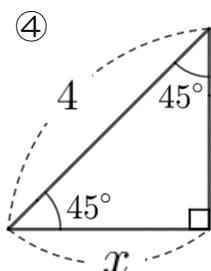
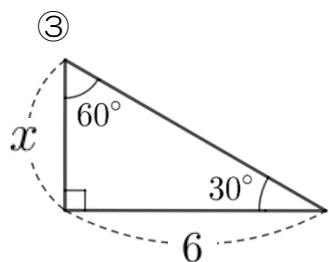
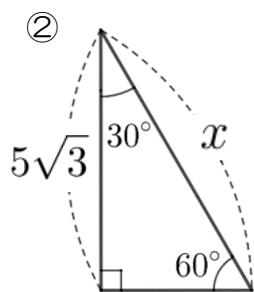
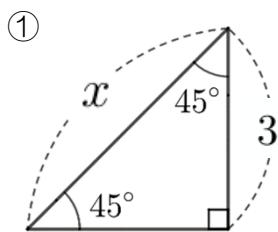
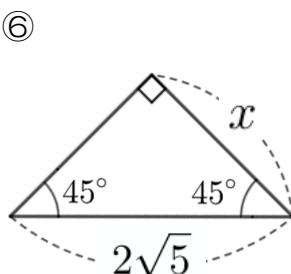
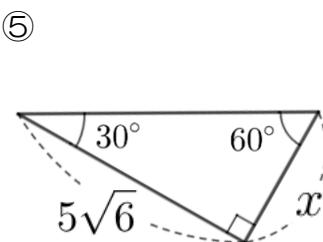
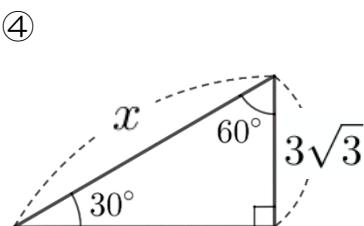
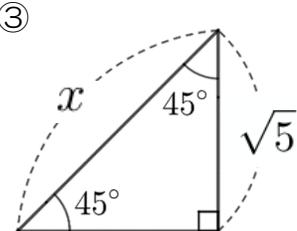
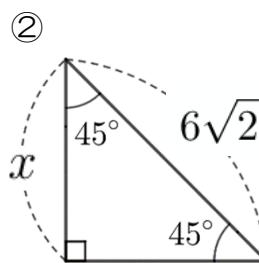
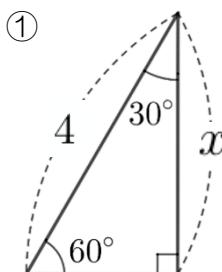
⑤



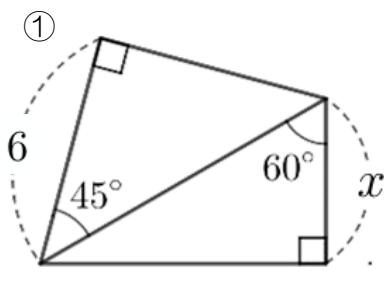
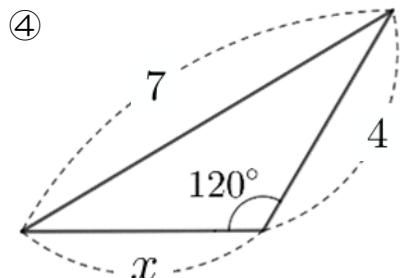
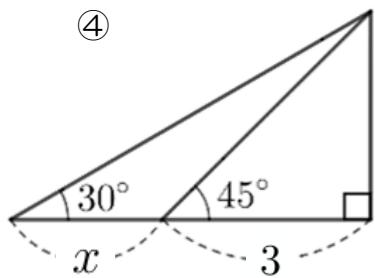
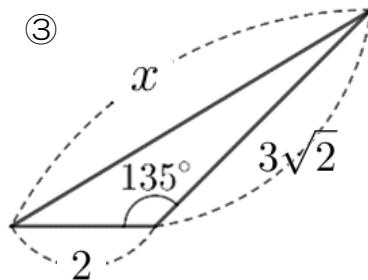
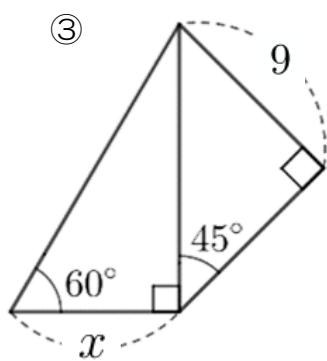
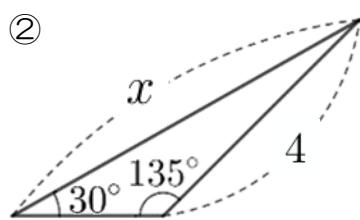
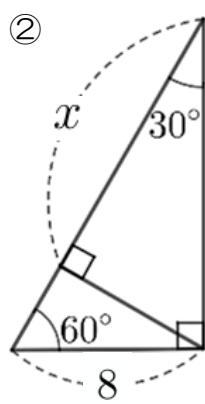
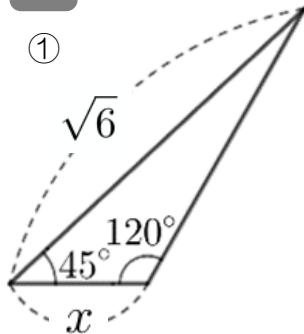
⑥



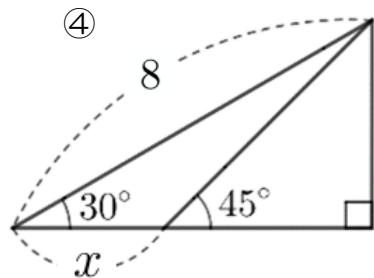
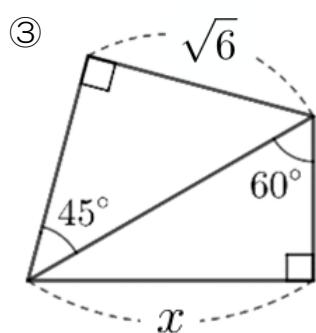
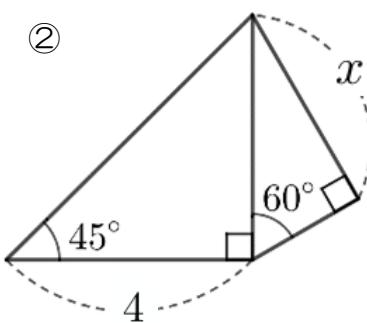
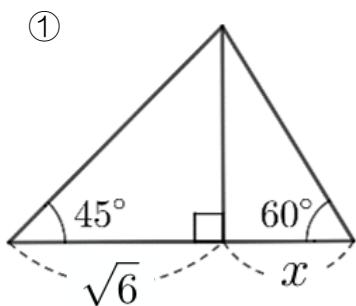
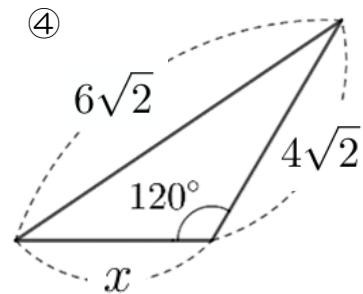
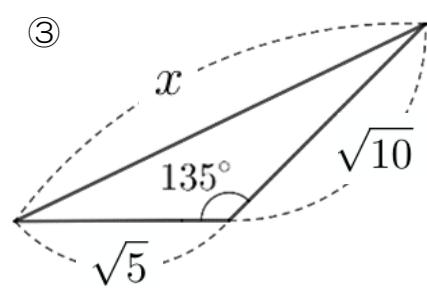
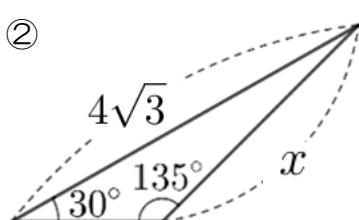
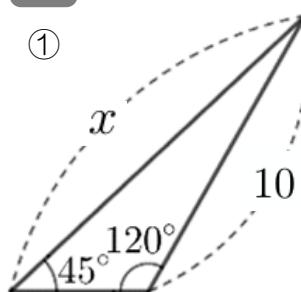
16. 特別な角 (演習) ②

1 x の値を求めなさい。2 x の値を求めなさい。

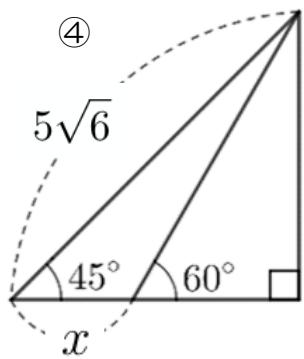
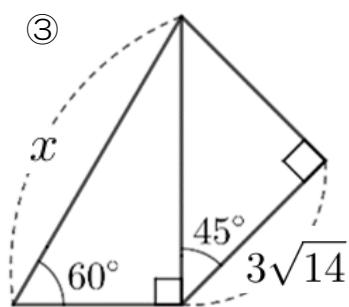
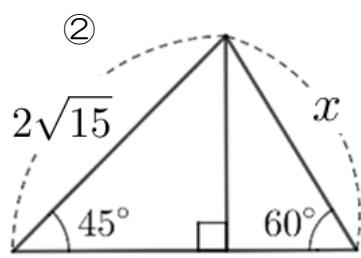
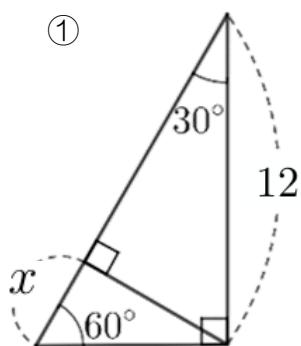
17. 特別な辺の比 (発展) ①

1 x の値を求めなさい。2 x の値を求めなさい。

18. 特別な辺の比 (発展) ②

1 x の値を求めなさい。2 x の値を求めなさい。

19. 特別な辺の比 (発展) ③

1 x の値を求めなさい。2 x の値を求めなさい。