

1. 二次方程式の復習①

1 次の二次方程式を解きなさい。

① $3^2 + x^2 = 5$

② $x^2 + 1^2 = 3^2$

③ $2^2 + 4^2 = x^2$

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

⑤ $24^2 + x^2 = 25^2$

2 次の二次方程式を解きなさい。

① $x^2 + 12^2 = 13^2$

② $2^2 + x^2 = 3^2$

③ $9^2 + 12^2 = x^2$

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

⑤ $(3\sqrt{2})^2 + 6^2 = x^2$

2. 二次方程式の復習②

1 次の二次方程式を解きなさい。

① $6^2 + x^2 = 10^2$

② $x^2 + 2^2 = 4^2$

③ $3^2 + 6^2 = x^2$

④ $(\sqrt{2})^2 + x^2 = 3^2$

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

2 次の二次方程式を解きなさい。

① $x^2 + 15^2 = 17^2$

② $2^2 + 3^2 = x^2$

③ $15^2 + x^2 = 25^2$

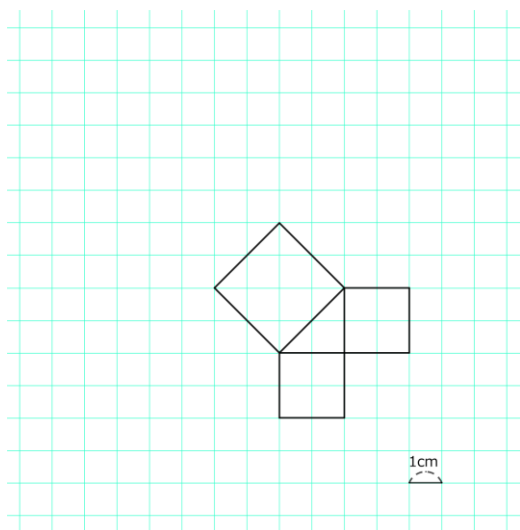
④ $(\sqrt{6})^2 + x^2 = (2\sqrt{6})^2$

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

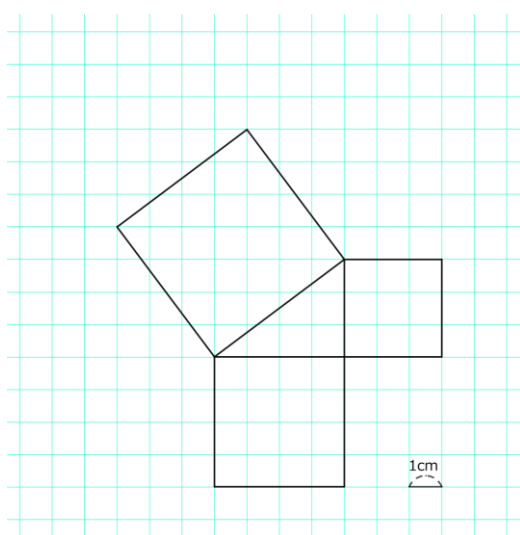
3. 正方形の面積

- 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。

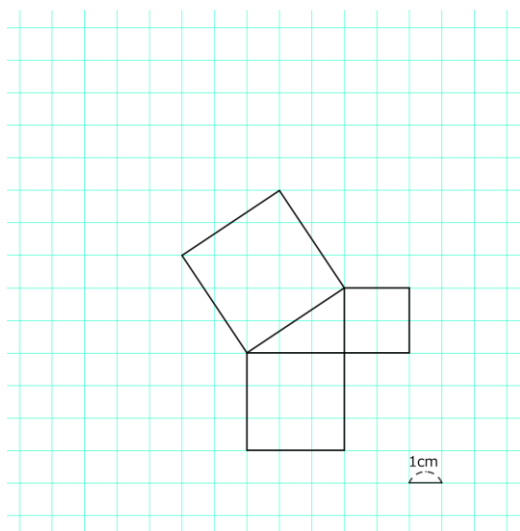
⑥



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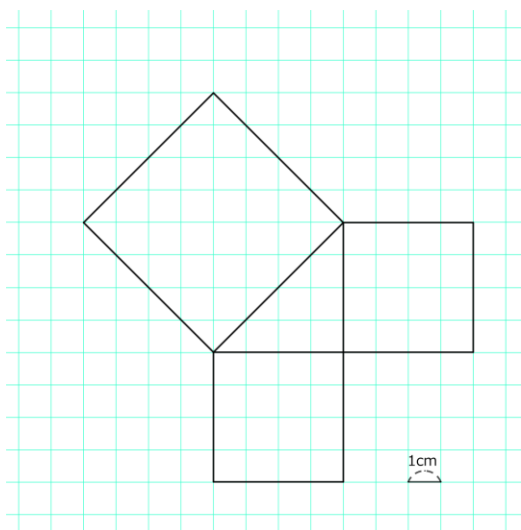


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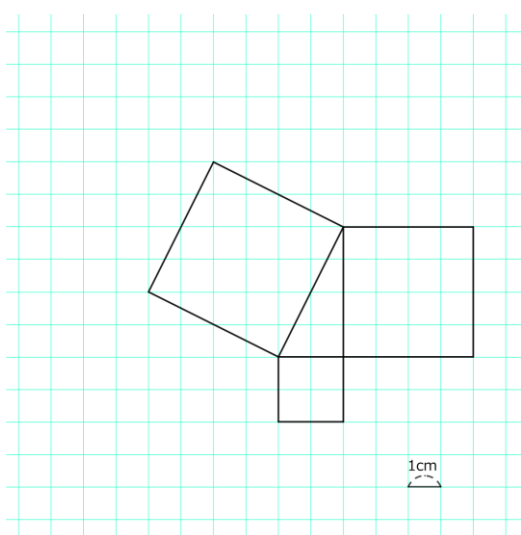


- 2** 3つの正方形の面積を求め、
直角三角形の斜辺の長さを求めなさい。

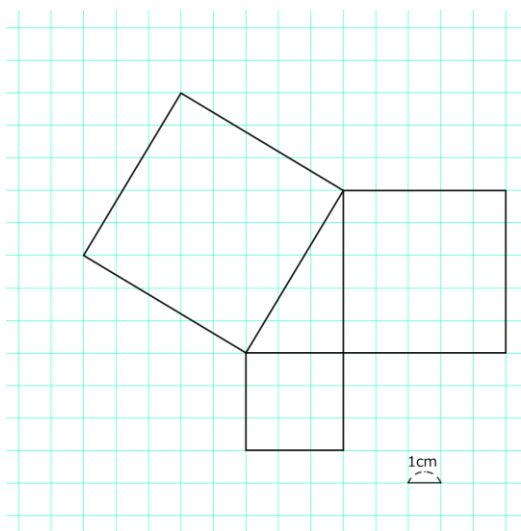
①



②



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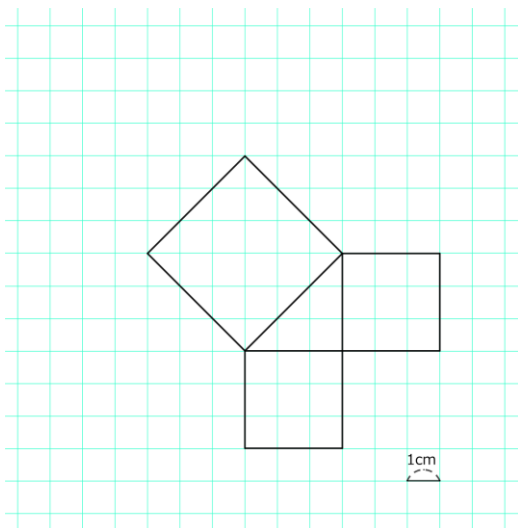


4. 正方形の面積

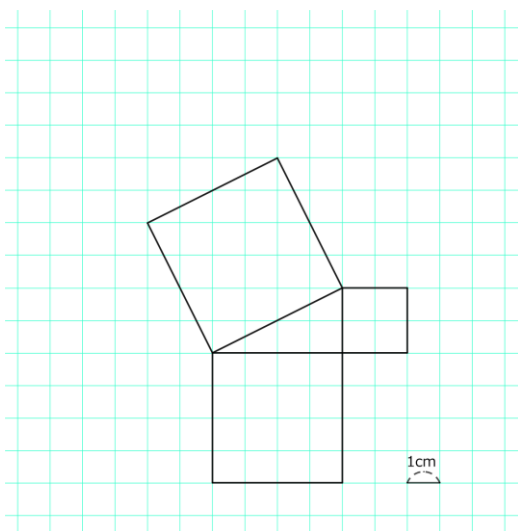
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3つの正方形の面積を求め、
直角三角形の斜辺の長さを求めなさい。

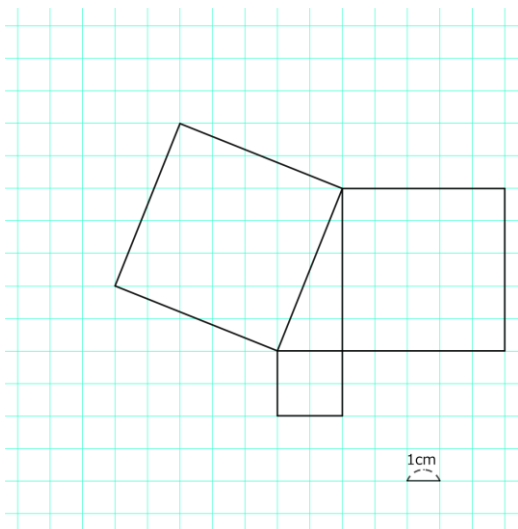
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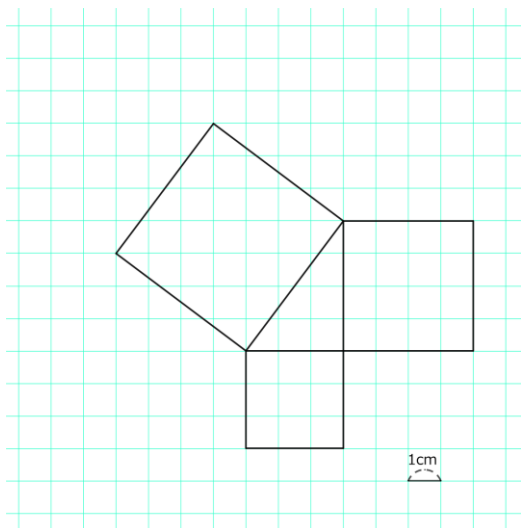
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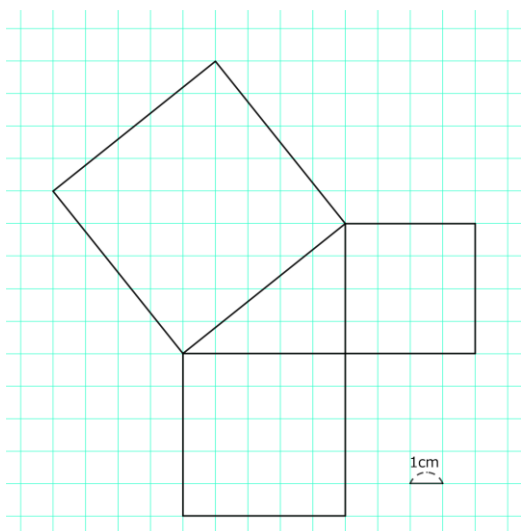
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3つの正方形の面積を求め、
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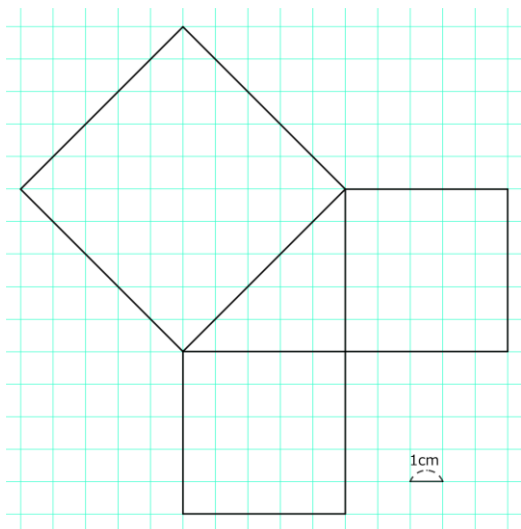
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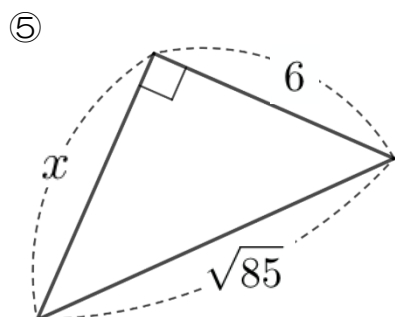
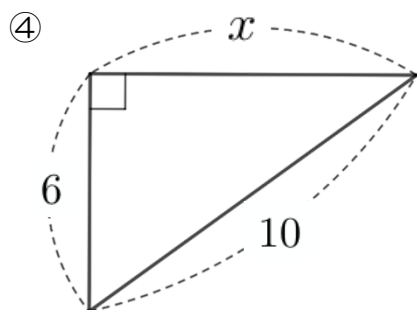
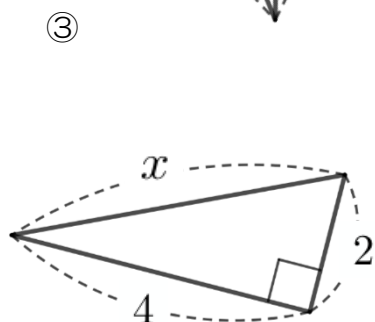
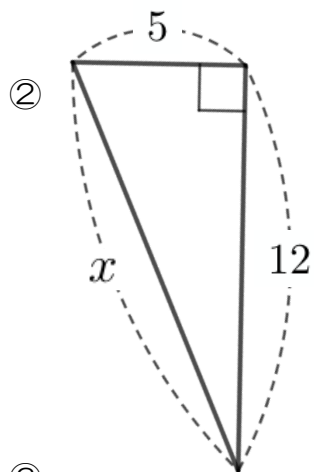
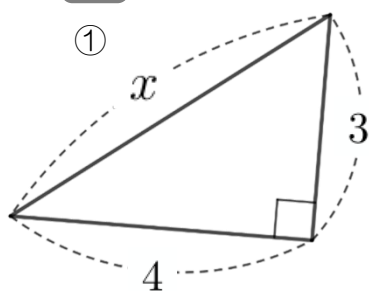
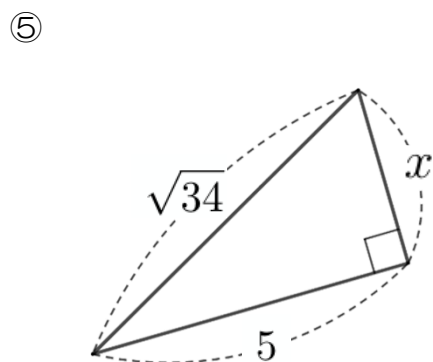
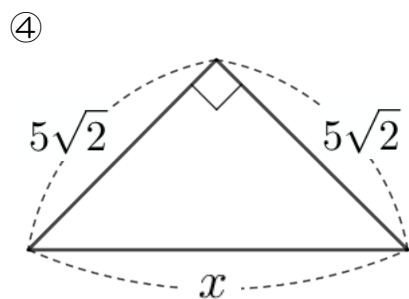
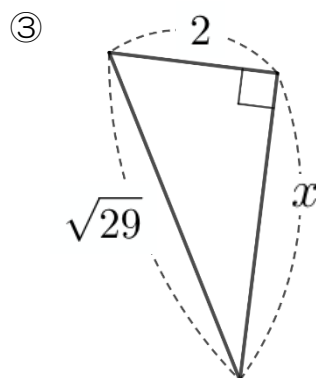
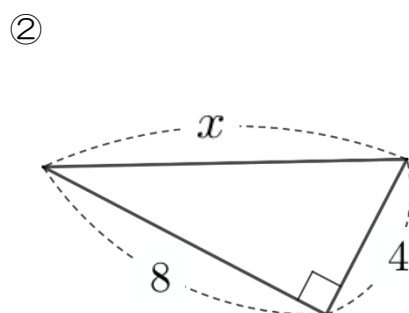
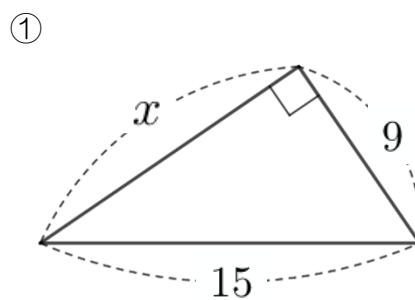
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③



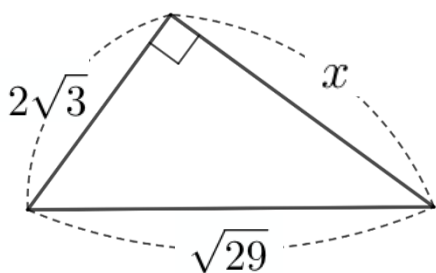
5. 三平方の定理①

1 x の値を求めなさい。2 x の値を求めなさい。

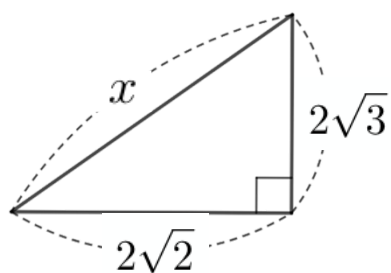
6. 三平方の定理②

1 x の値を求めなさい。

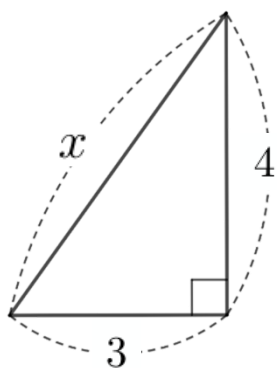
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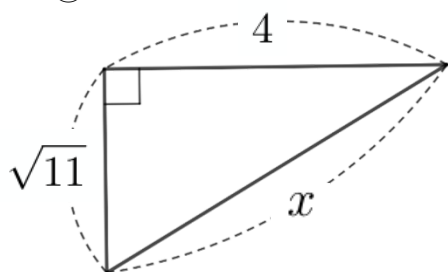
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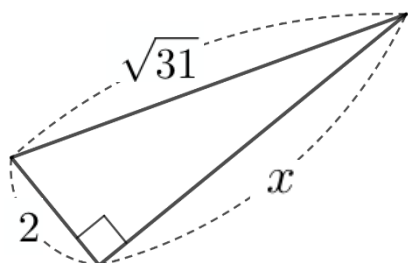
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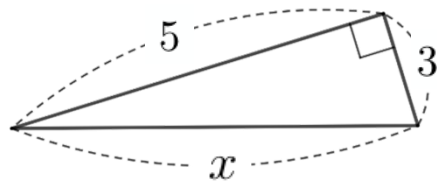
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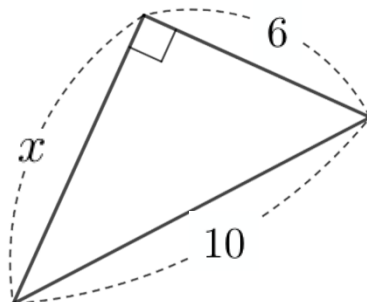
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2 x の値を求めなさい。

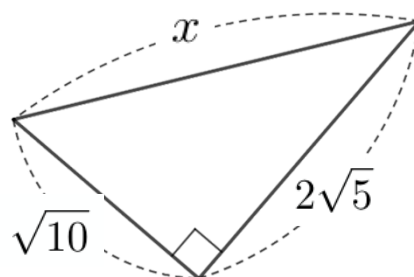
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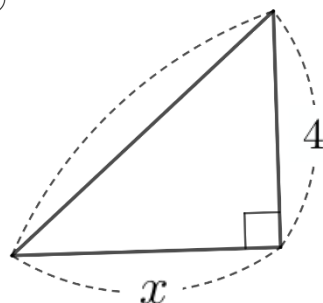
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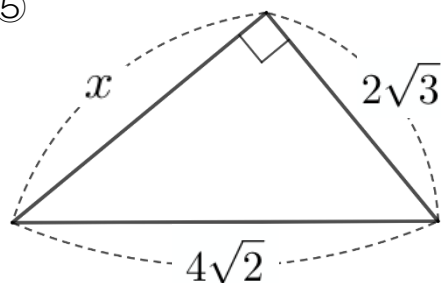
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④



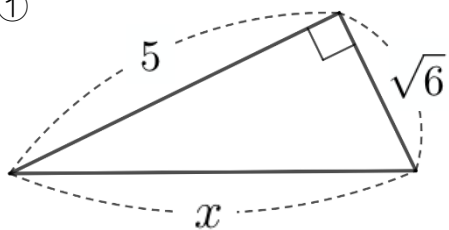
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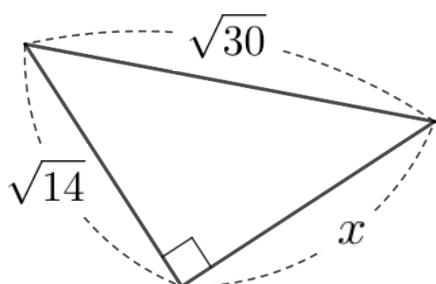
7. 三平方の定理③

1 x の値を求めなさい。

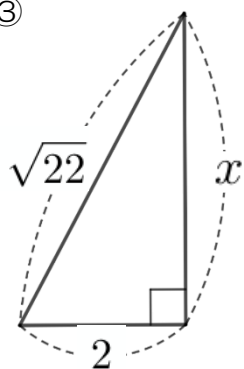
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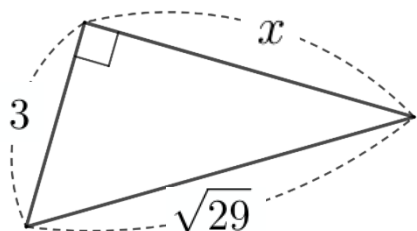
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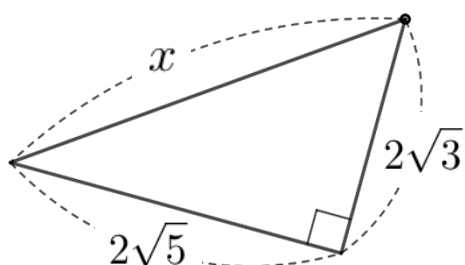
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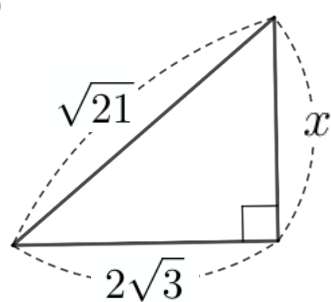
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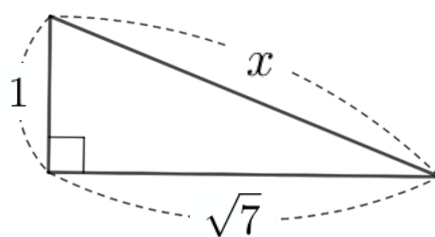
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2 x の値を求めなさい。

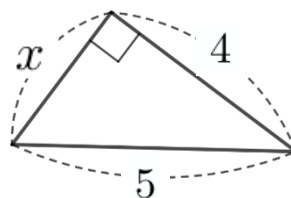
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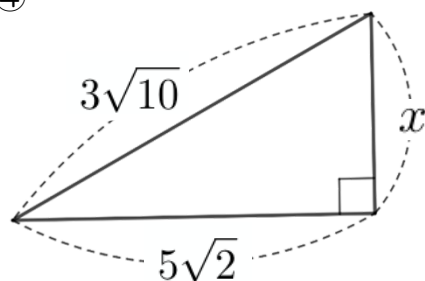
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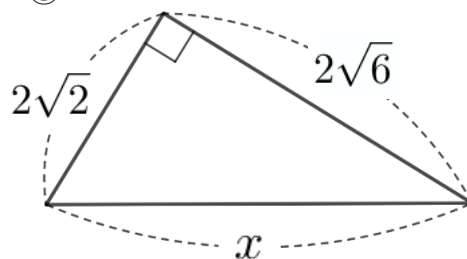
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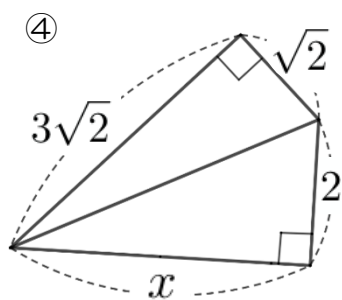
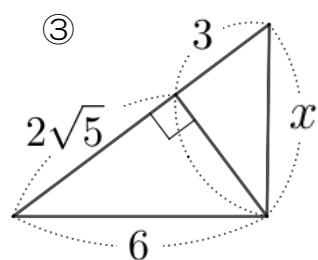
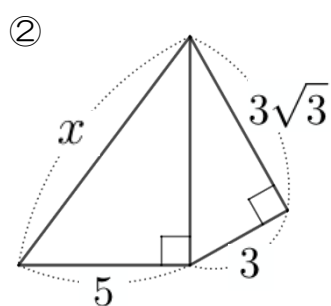
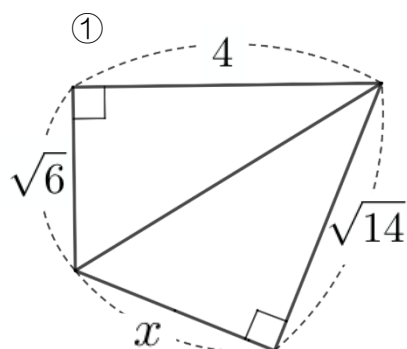


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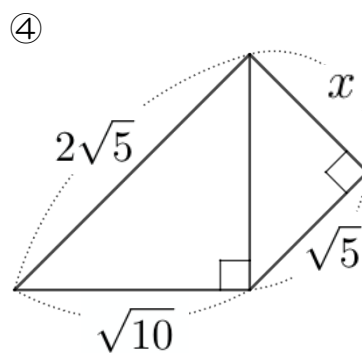
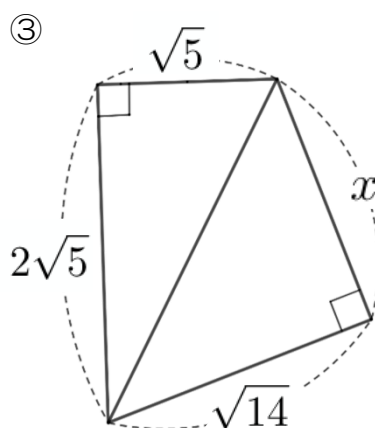
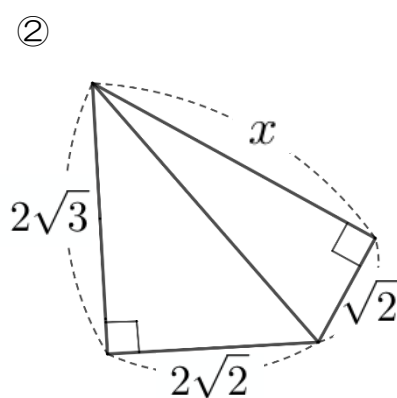
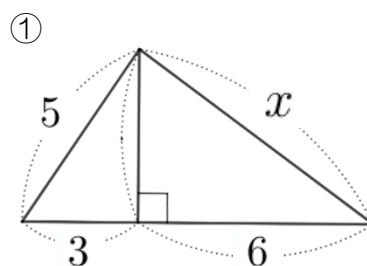


8. 2つの三角形①

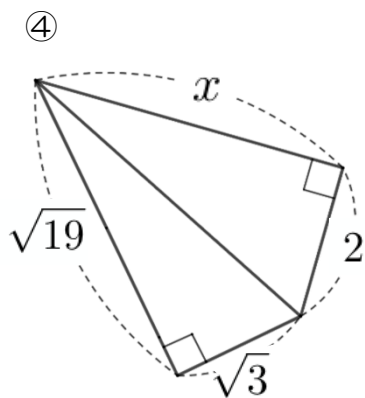
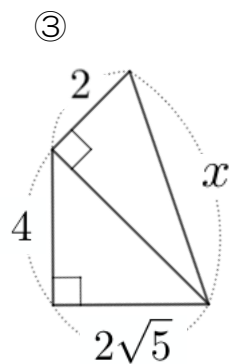
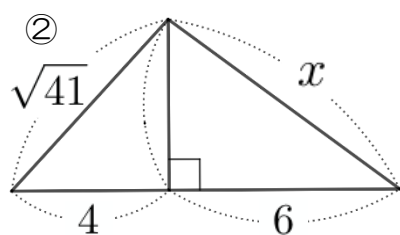
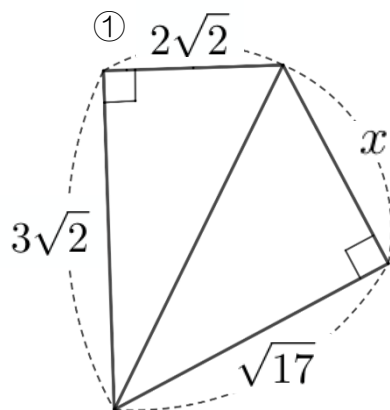
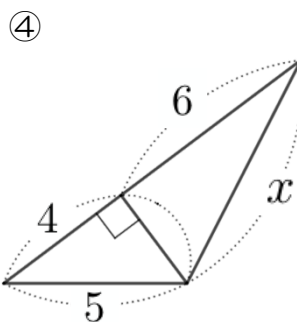
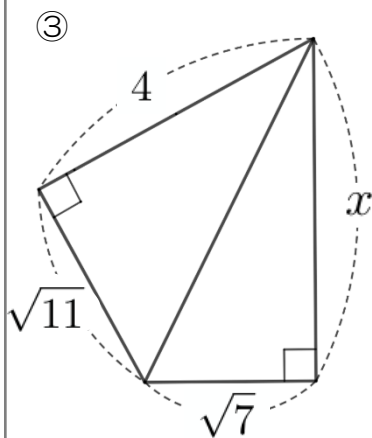
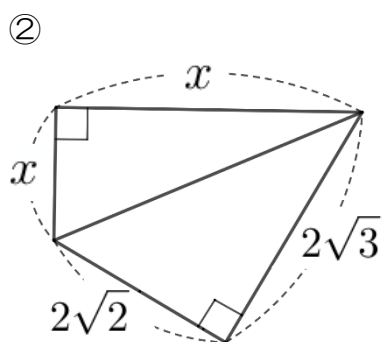
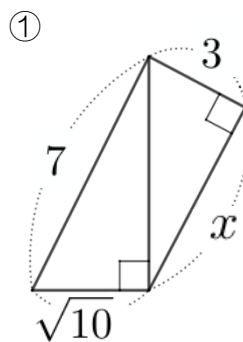
1 x の値を求めなさい。



2 x の値を求めなさい。



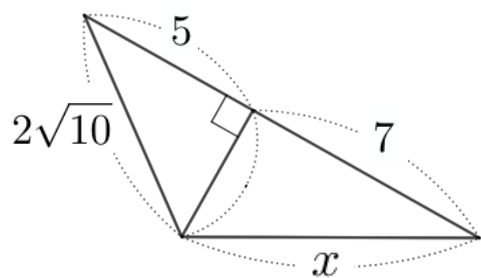
9. 2つの三角形②

1 x の値を求めなさい。2 x の値を求めなさい。

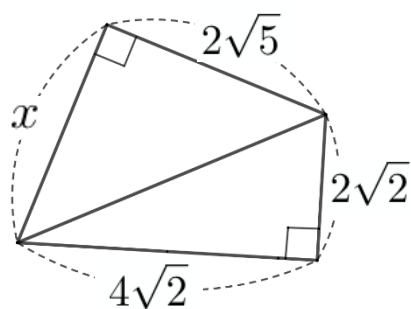
10. 2つの三角形③

1 x の値を求めなさい。

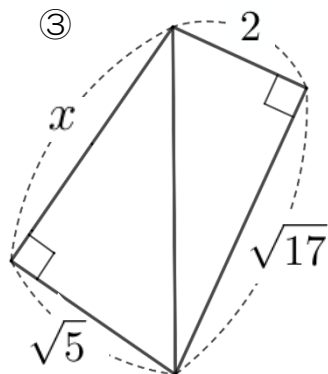
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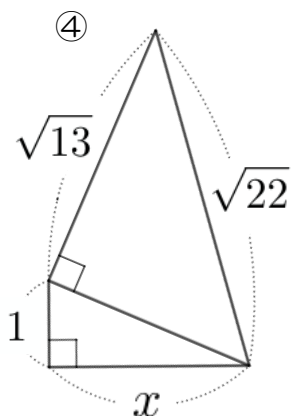
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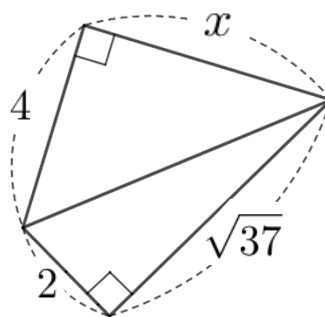
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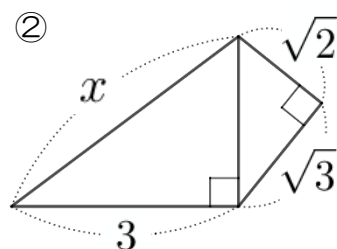
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2 x の値を求めなさい。

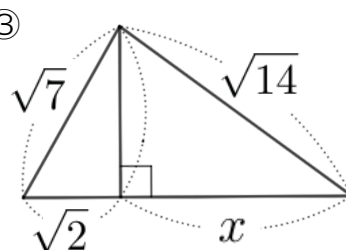
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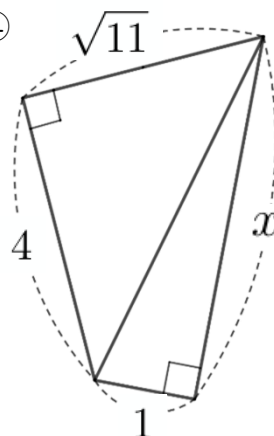
②



③



④



1 1. 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。

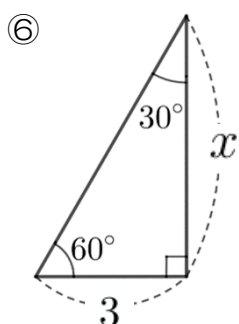
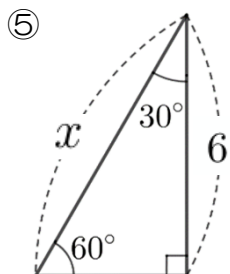
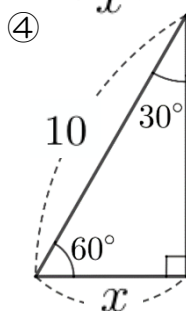
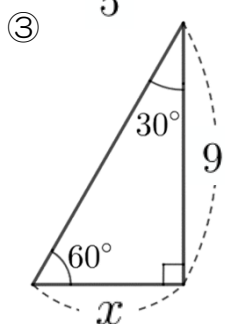
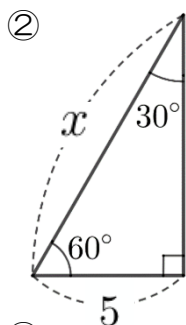
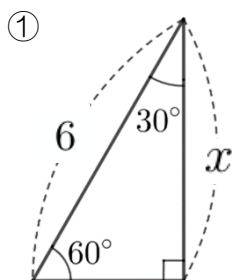
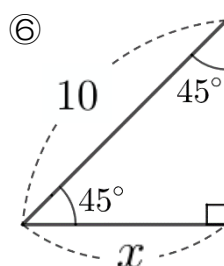
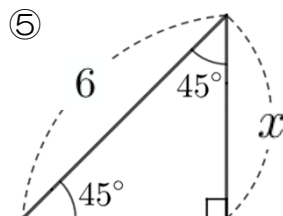
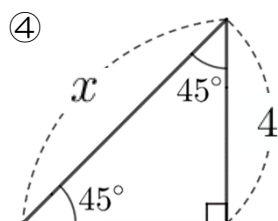
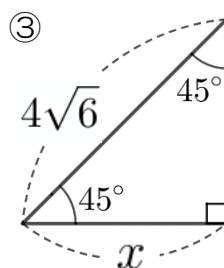
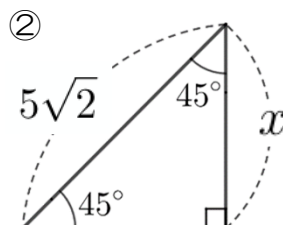
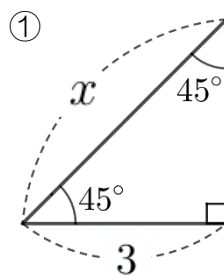
① 3 cm、4 cm

② 8 cm、15 cm

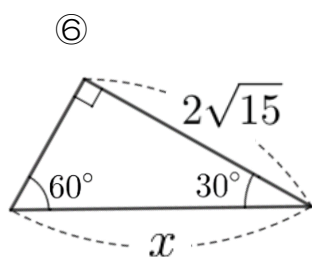
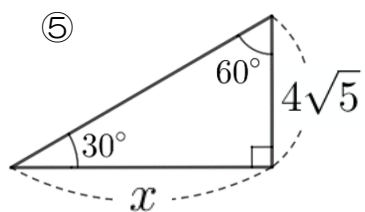
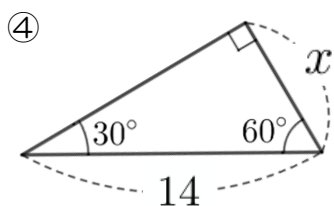
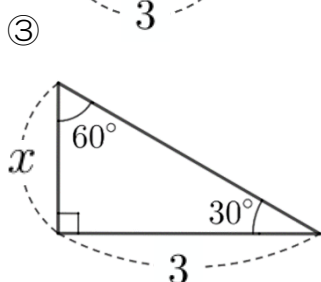
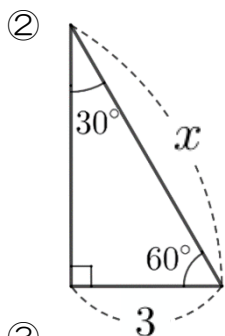
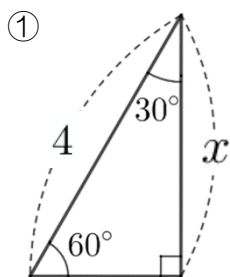
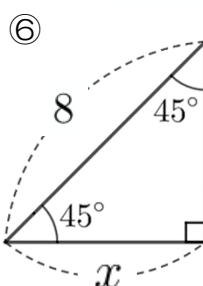
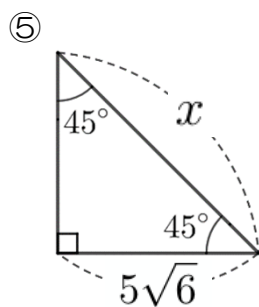
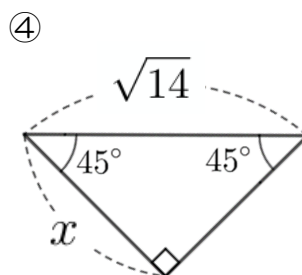
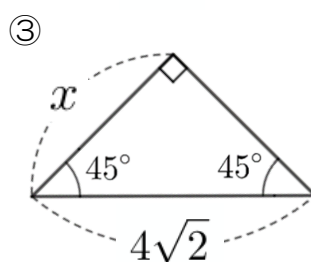
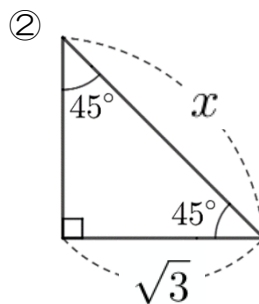
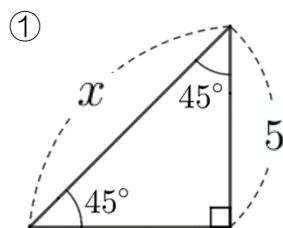
③ $3\sqrt{2}$ cm、 $2\sqrt{3}$ cm

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。

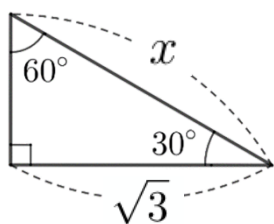
14. 特別な角 (いろいろな向き)

1 x の値を求めなさい。2 x の値を求めなさい。

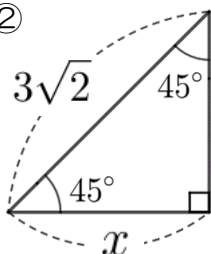
15. 特別な角 (演習) ①

1 x の値を求めなさい。

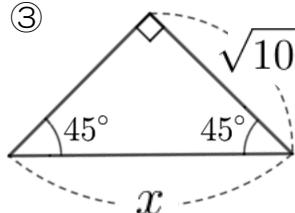
①



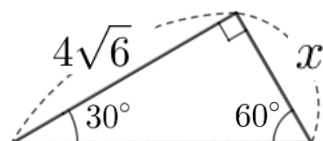
②



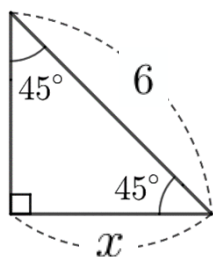
③



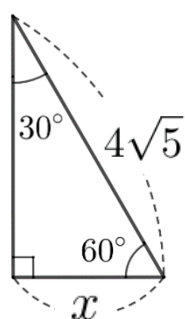
④



⑤



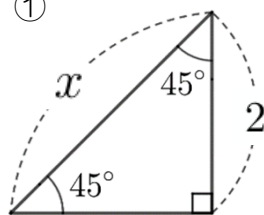
⑥



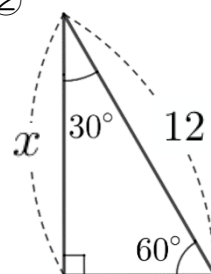
2

 x の値を求めなさい。

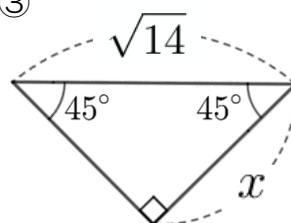
①



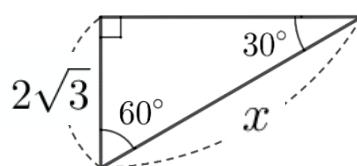
②



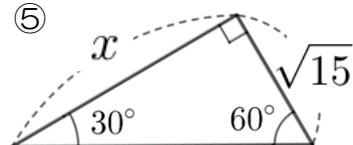
③



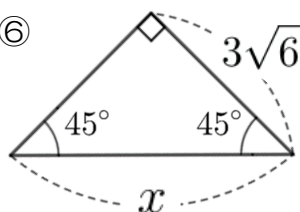
④



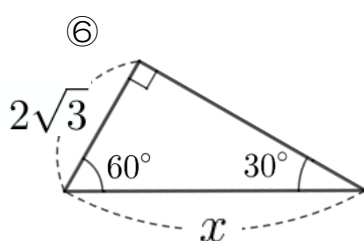
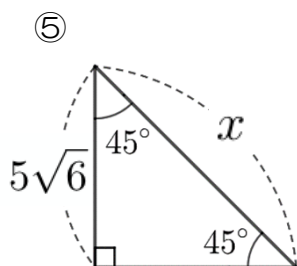
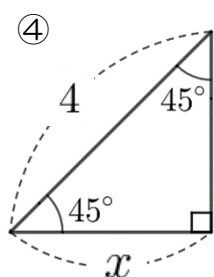
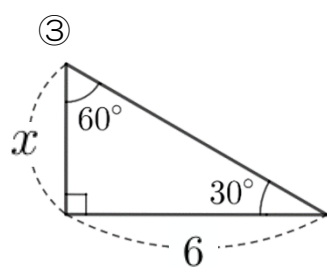
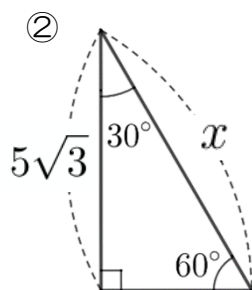
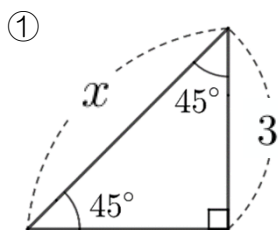
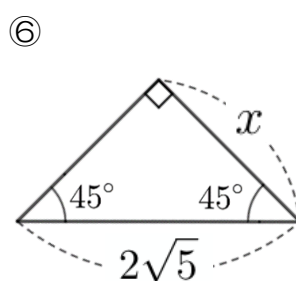
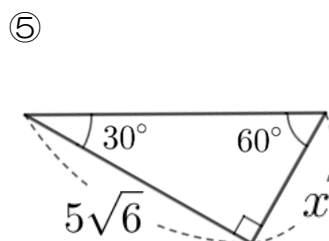
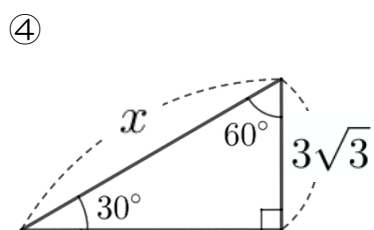
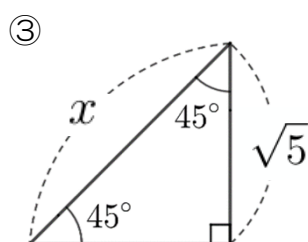
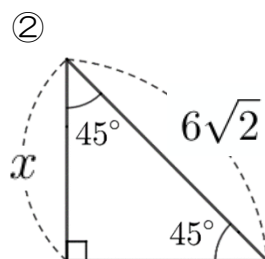
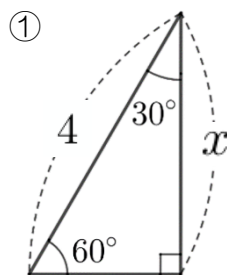
⑤



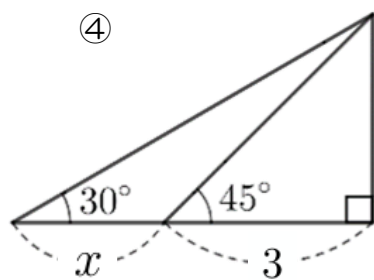
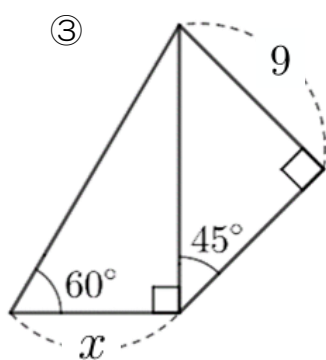
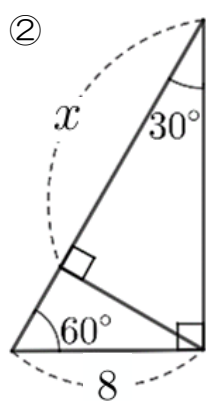
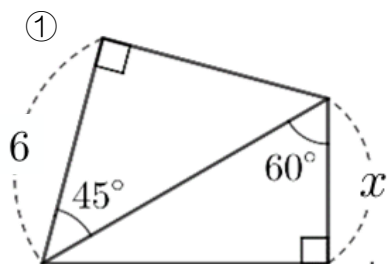
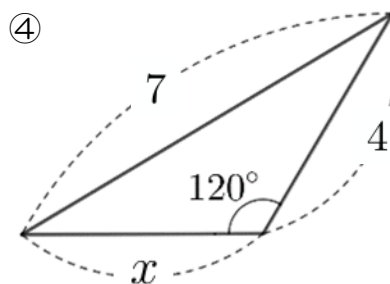
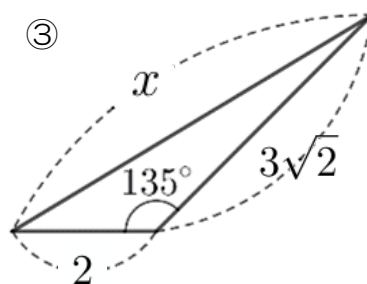
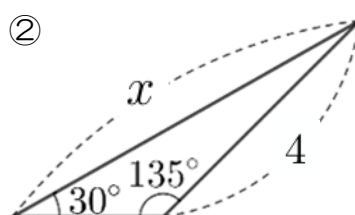
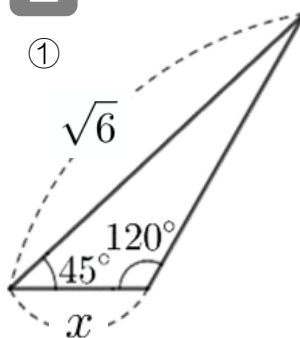
⑥



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。

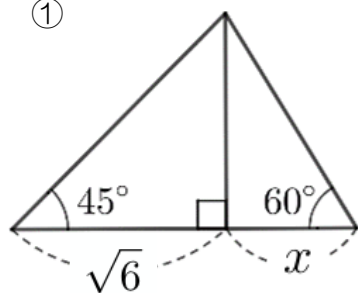
17. 特別な辺の比 (発展) ①

1 x の値を求めなさい。2 x の値を求めなさい。

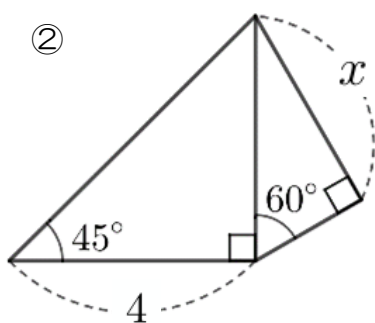
18. 特別な辺の比 (発展) ②

1 x の値を求めなさい。

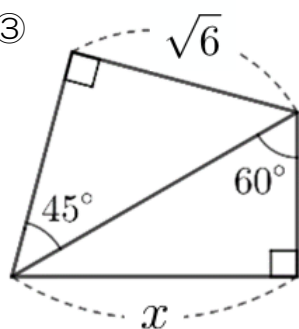
①



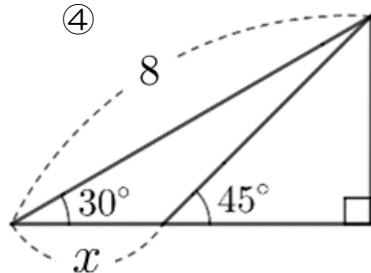
②



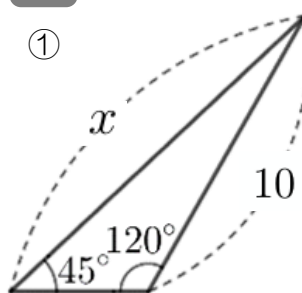
③



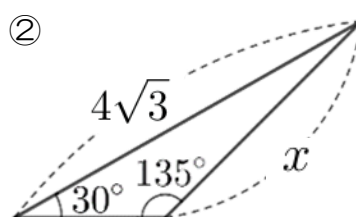
④

2 x の値を求めなさい。

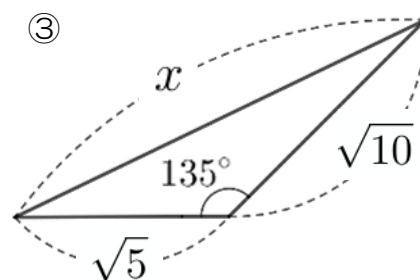
①



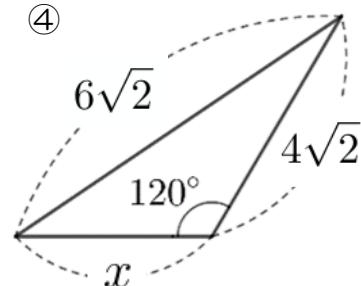
②



③



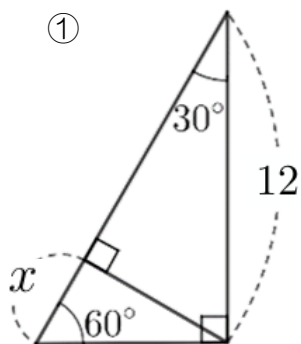
④



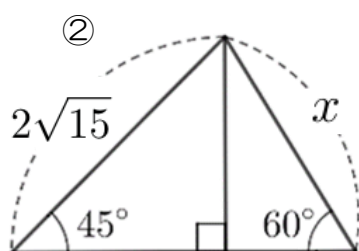
19. 特別な辺の比 (発展) ③

1 x の値を求めなさい。

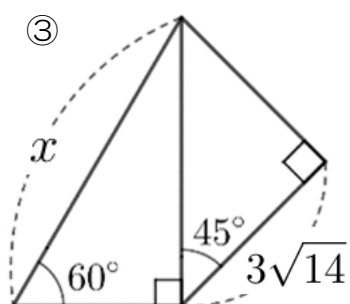
①



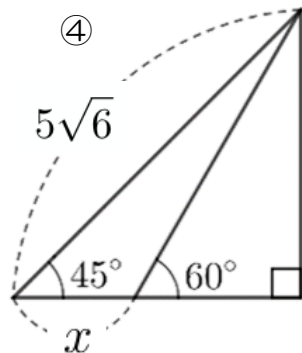
②



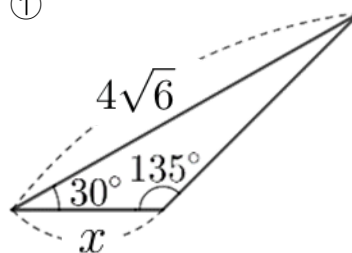
③



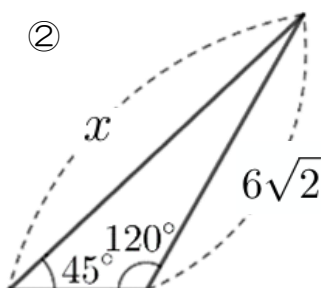
④

2 x の値を求めなさい。

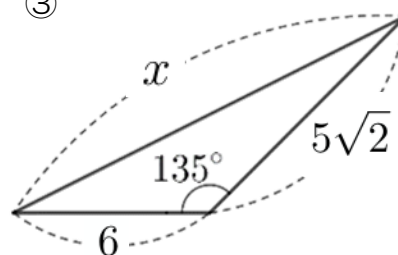
①



②



③



④

