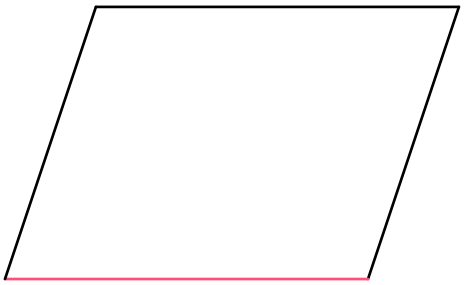
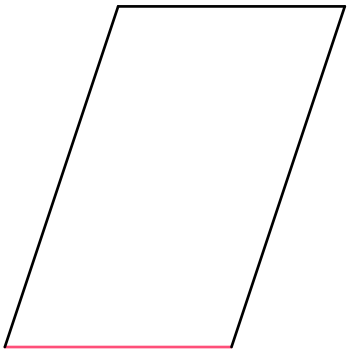
ステップ1　平行四辺形

1　次の平行四辺形において、赤い辺を底辺としたときの高さはどこですか。三角定規または方眼定規を使って正確に作図しなさい。また、底辺と高さが直角に交わるところに直角の印をつけなさい。

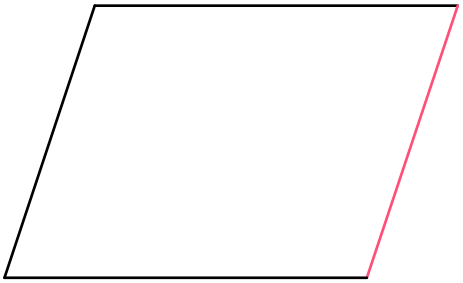
(1)



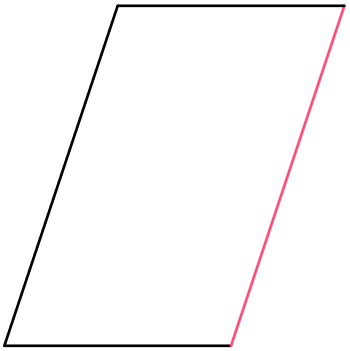
(2)



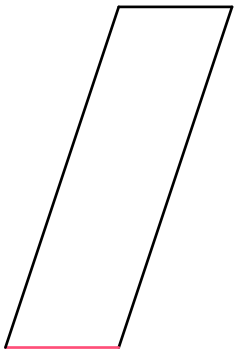
(3)



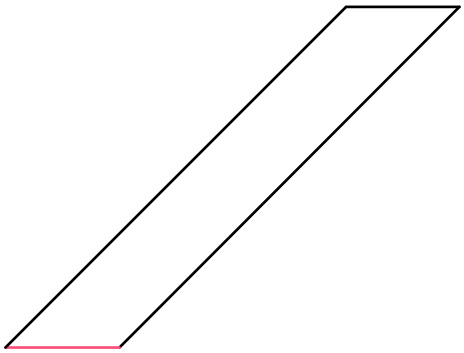
(4)



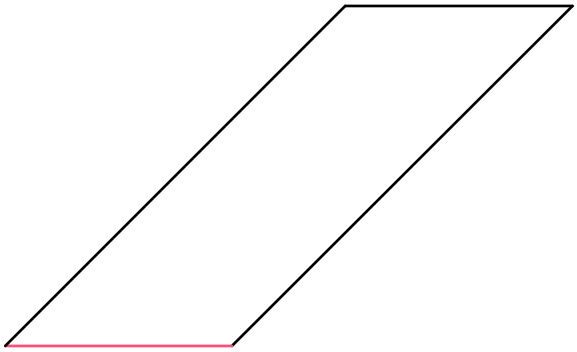
(5) 底辺を右側に延長します。



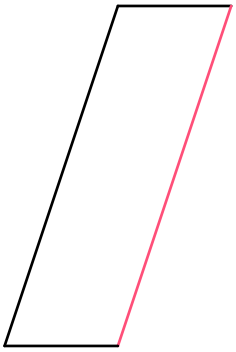
(6)



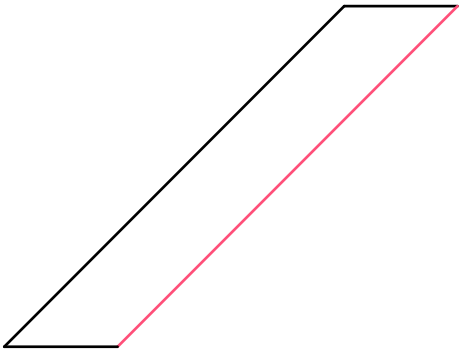
(7)



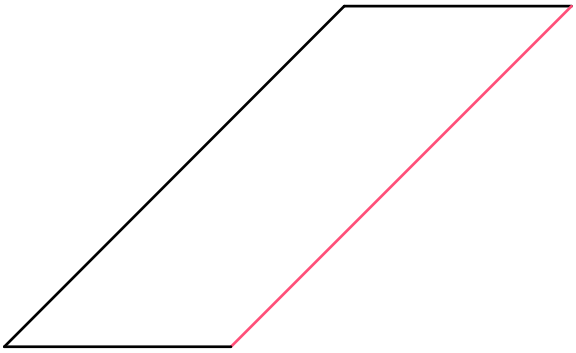
(8)



(9)

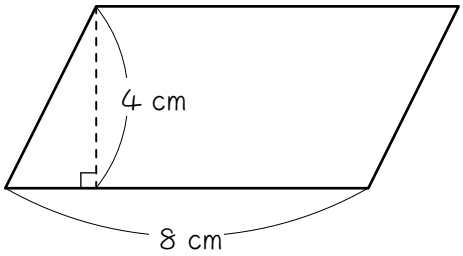


(10)

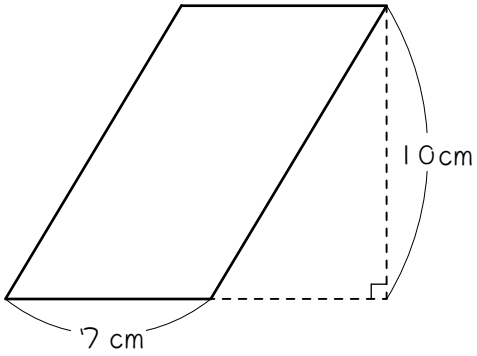


2 次の平行四辺形の面積を求めなさい。

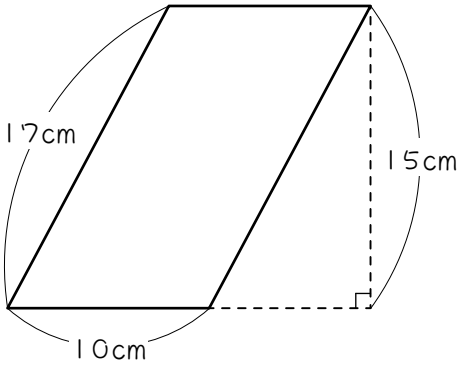
(1)



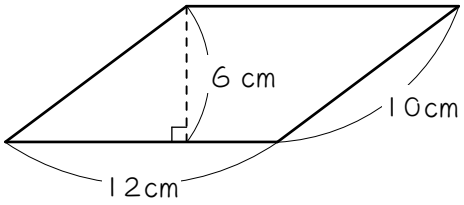
(2)



(3)



(4)

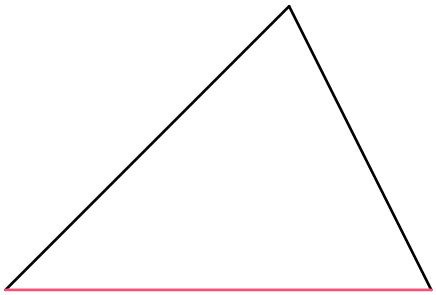


ステップ2　三角形

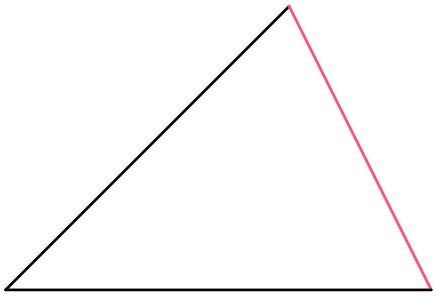
3　次の三角形において、赤い辺を底辺としたときの高さはどこですか。

三角定規または方眼定規を使って正確に作図しなさい。

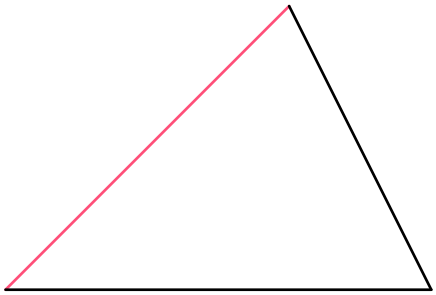
(1)



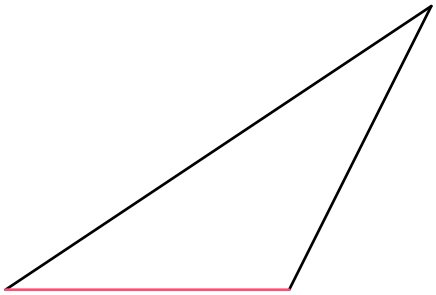
(2)



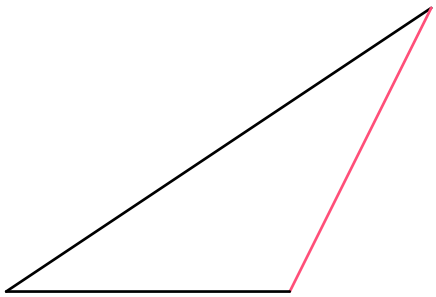
(3)



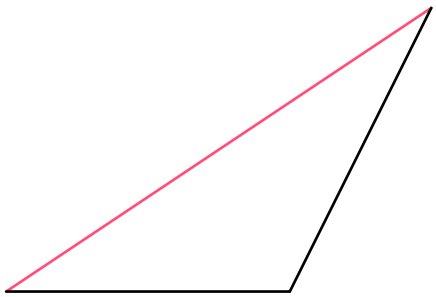
(4)　底辺を右側に延長します。



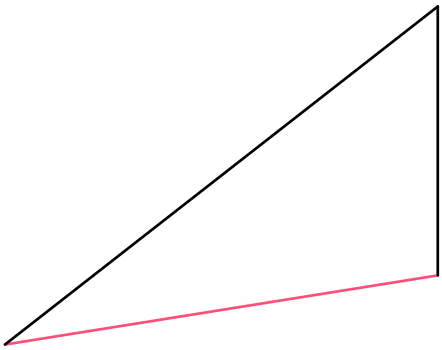
(5)



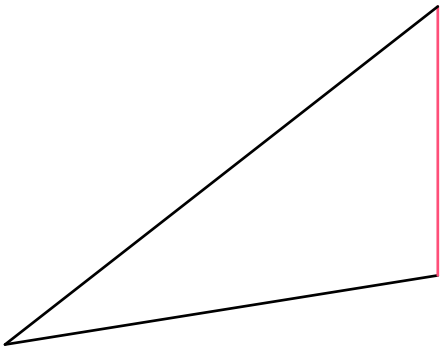
(6)



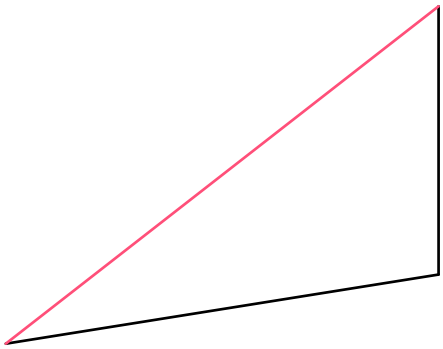
(7)



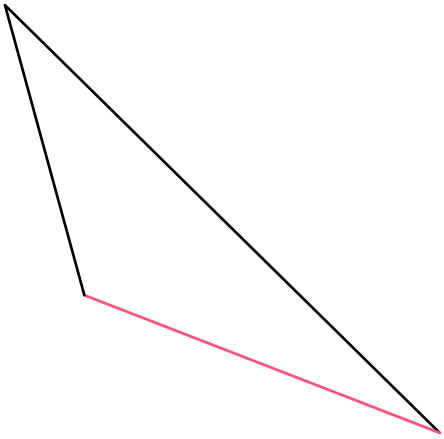
(8)



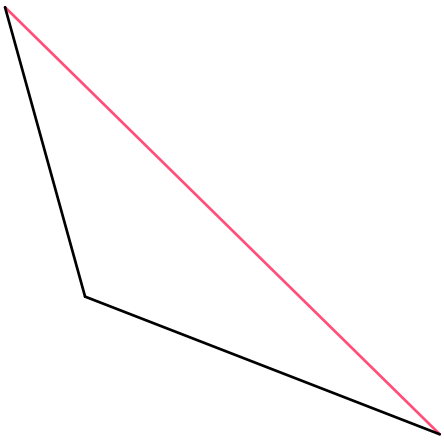
(9)



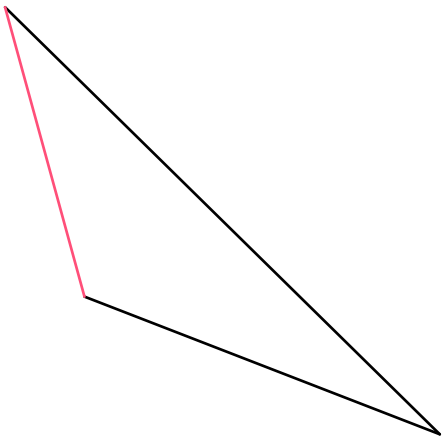
(10)



(11)

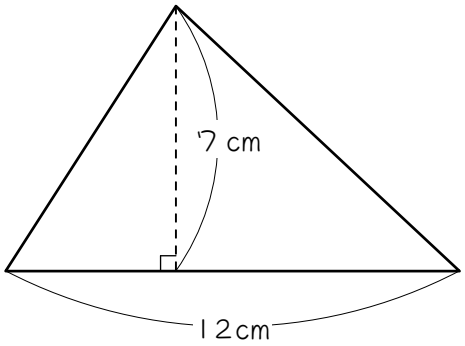


(12)

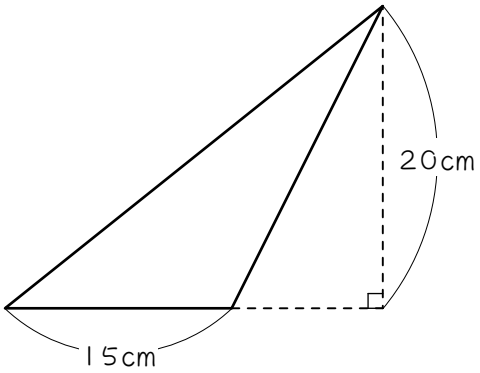


4 次の三角形の面積を求めなさい。

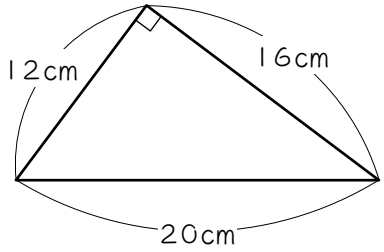
(1)



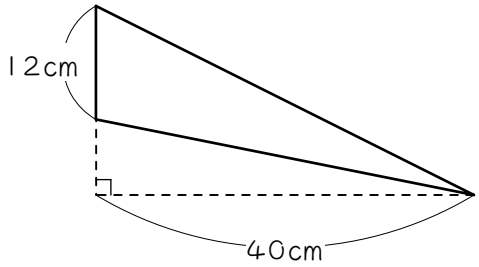
(2)



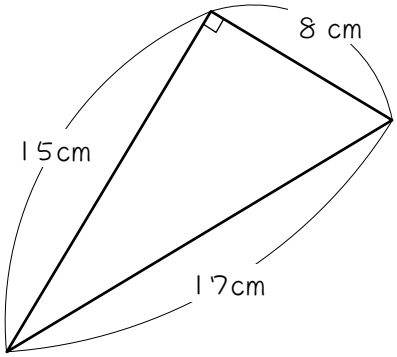
(3)



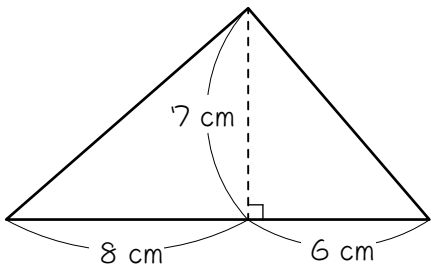
(4)



(5)



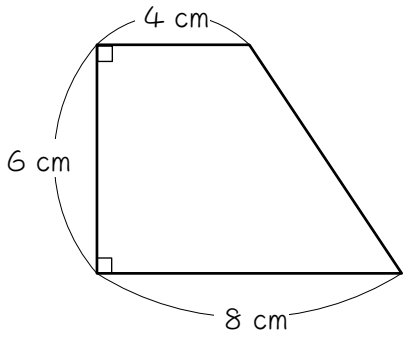
(6)



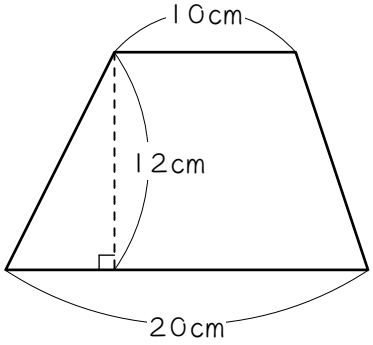
ステップ3　台形

5　次の台形の面積を求めなさい。

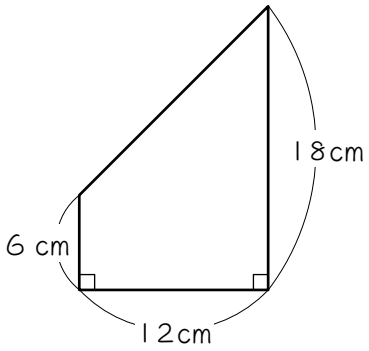
(1)



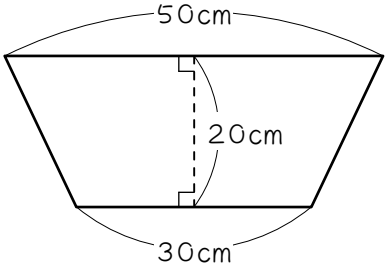
(2)



(3)



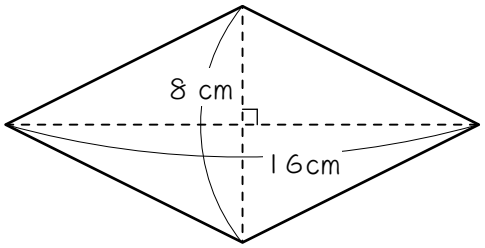
(4)



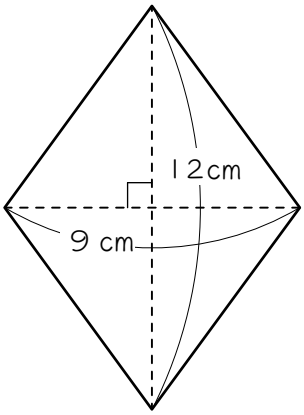
ステップ4　ひし形

6　次のひし形の面積を求めなさい。

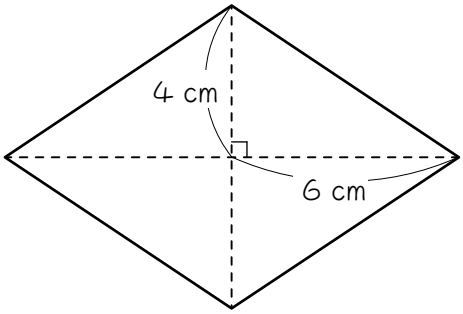
(1)



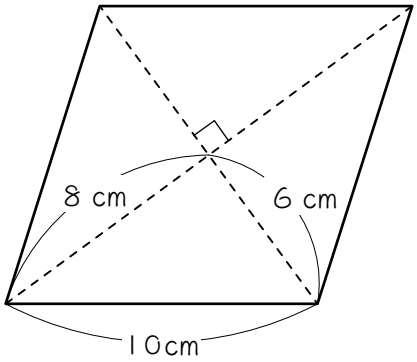
(2)



(3)



(4)

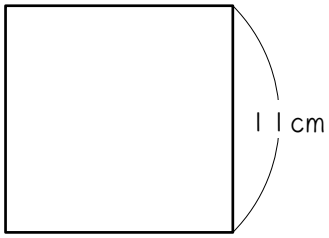


ステップ5　正方形

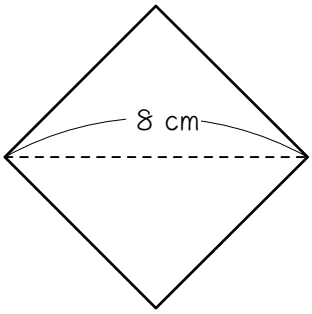
7　次の正方形の面積を求めなさい。

正方形はひし形の一種なので、ひし形の公式も使えます。

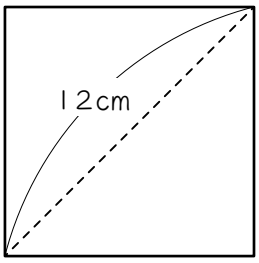
(1)



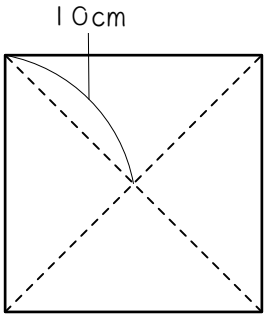
(2)



(3)



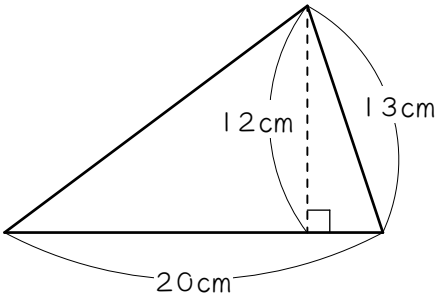
(4)



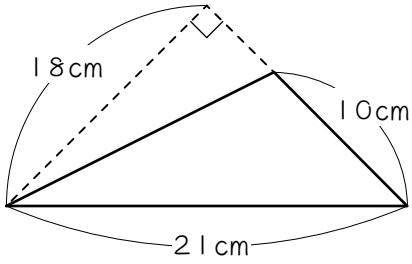
ステップ6　まとめ

8　次の図形の面積を求めなさい。

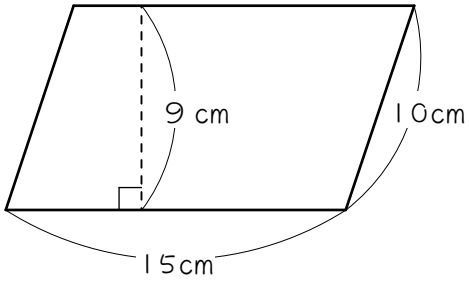
(1)



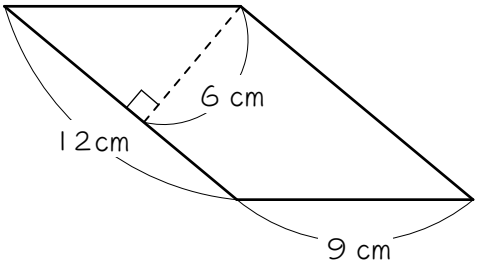
(2)



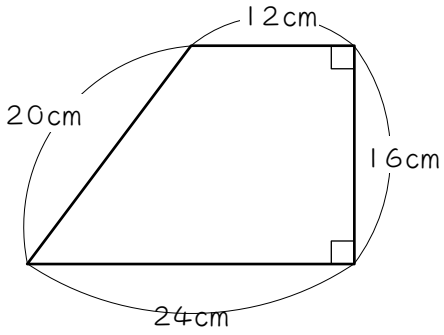
(3)　平行四辺形



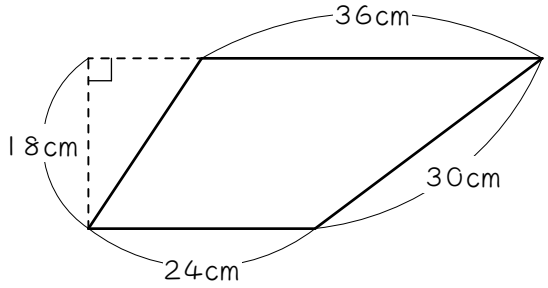
(4)　平行四辺形



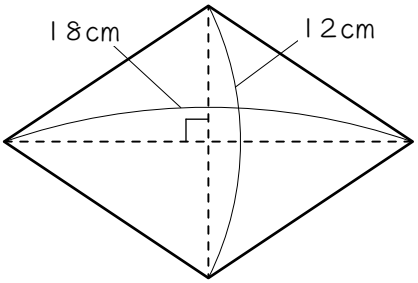
(5)



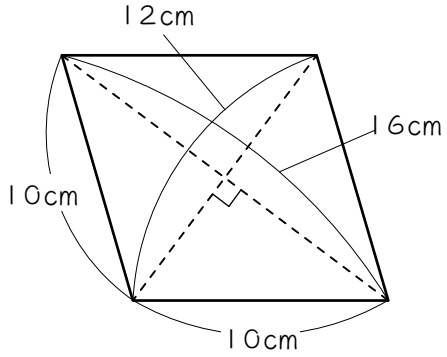
(6) 台形



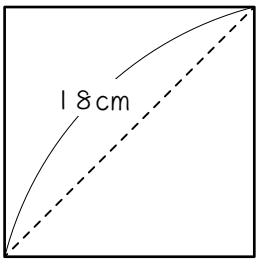
(7) ひし形



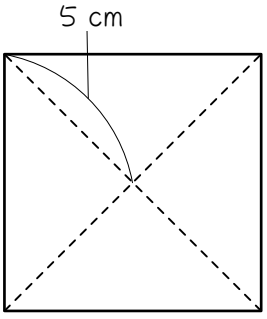
(8) ひし形



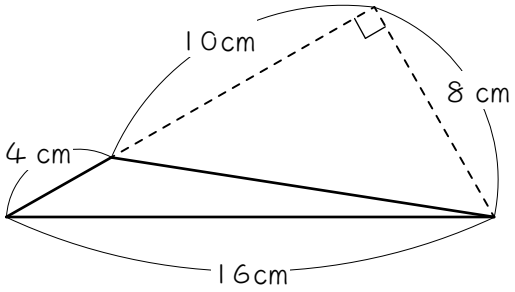
(9) 正方形



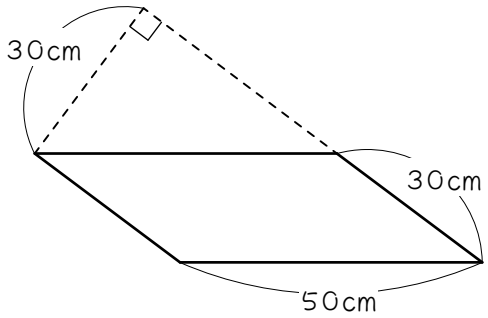
(10) 正方形



(11)



(12) 平行四辺形



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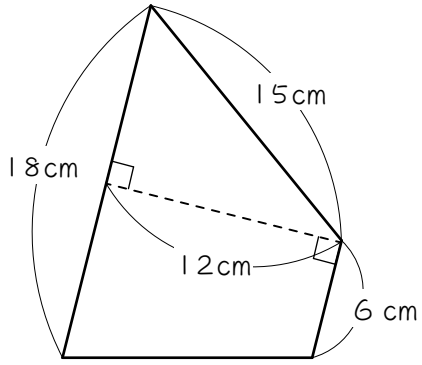

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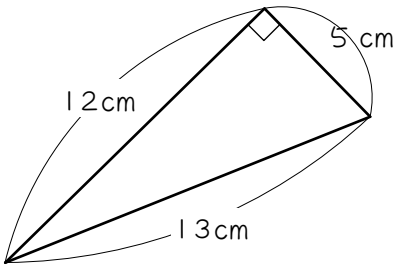
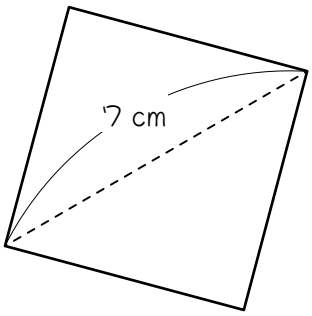
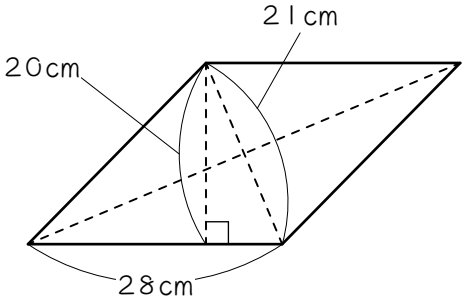


(15) 正方形



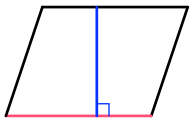
(16) ひし形

ひし形は平行四辺形の一種です。

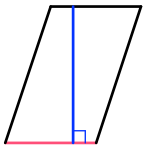


■ 解答 ■

1 (1)



(2)



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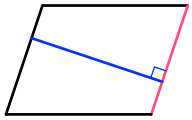

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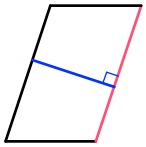

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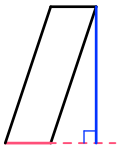

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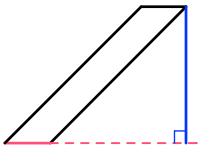

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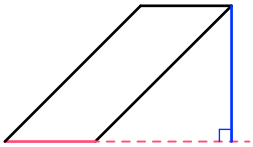

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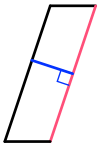

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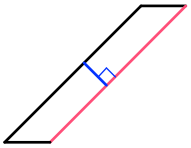

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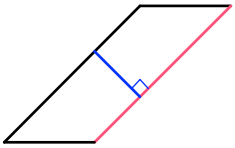
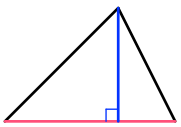


2 (1) 32 cm² (2) 70 cm²
(3) 150 cm² (4) 72 cm²

3 (1)



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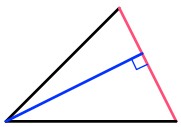

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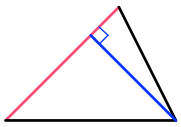

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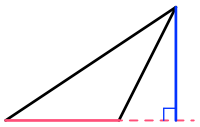

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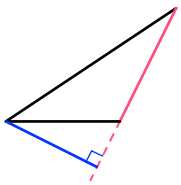

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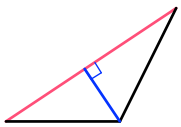

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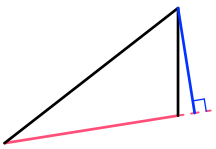

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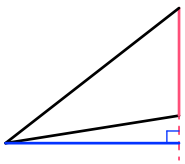

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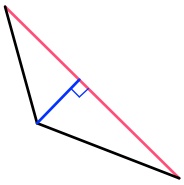

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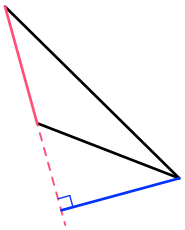

4 (1) 42 cm² (2) 150 cm²
(3) 96 cm² (4) 240 cm²
(5) 60 cm² (6) 49 cm²

5 (1) 36 cm² (2) 180 cm²
(3) 144 cm² (4) 800 cm²

6 (1) 64 cm² (2) 54 cm²
(3) 48 cm² (4) 96 cm²

7 (1) 121 cm² (2) 32 cm²
(3) 72 cm² (4) 200 cm²

8 (1) 120 cm² (2) 90 cm²
(3) 135 cm² (4) 72 cm²
(5) 288 cm² (6) 540 cm²
(7) 108 cm² (8) 96 cm²
(9) 162 cm² (10) 50 cm²
(11) 16 cm² (12) 900 cm²
(13) 144 cm² (14) 30 cm²
(15) 24.5 cm² (16) 560 cm²