G-2

第3講 図形の面積

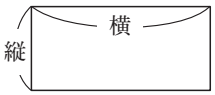
学習日 ／

※書きこみはせず，ノートに問題を写して解きましょう。

Grade 1 基本図形の面積

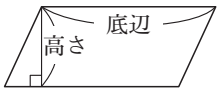
動きと解説でわかる!

長方形・正方形



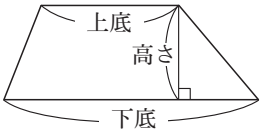
S(面積)＝(縦)×(横)

平行四辺形



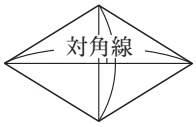
S ＝(高さ)×(底辺)

台形



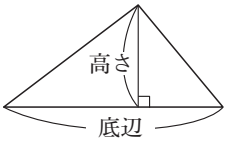
$S = \frac{1}{2}$(上底＋下底)×高さ

ひし形



$S = \frac{1}{2}$(対角線)×(対角線)

三角形

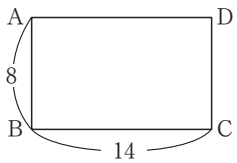


$S = \frac{1}{2}$(底辺)×(高さ)

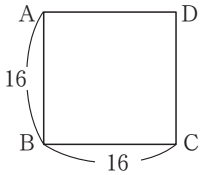
■練習問題■

1 次の図形の面積を求めよ。

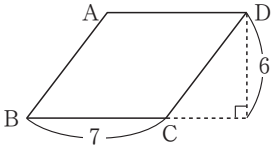
(1)



(2)

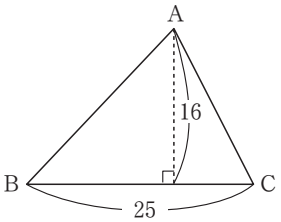


(3)

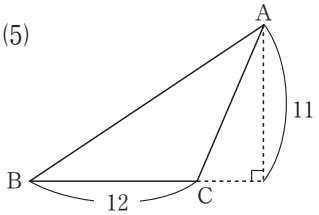


(ABCD は平行四辺形)

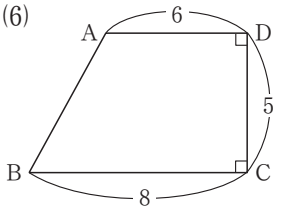
(4)



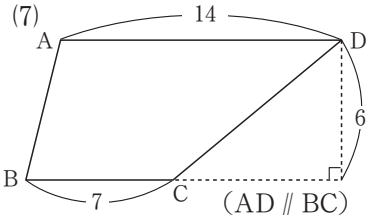
(5)



(6)

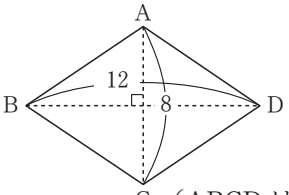


(7)



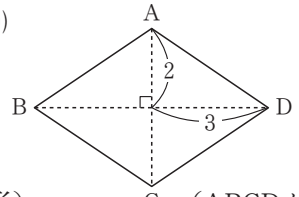
(AD // BC)

(8)



(ABCD はひし形)

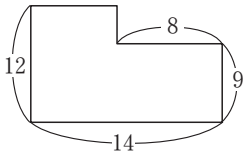
(9)



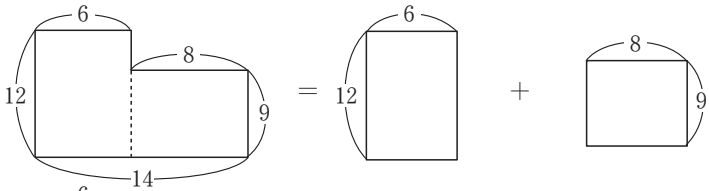
(ABCD はひし形)

動きと解説でわかる!

例題 次の図形の面積を求めよ。

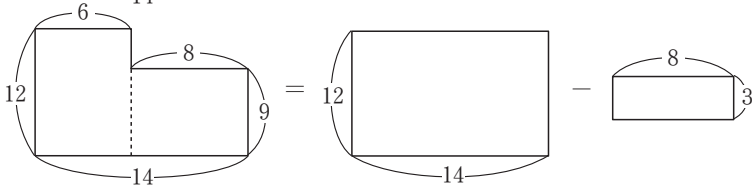


解



$= 72+72 = \mathbf{144}$

(別解)



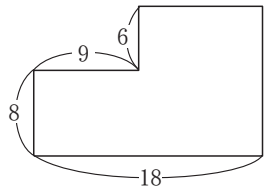
$= 12\times14-3\times8$

$= \mathbf{144}$

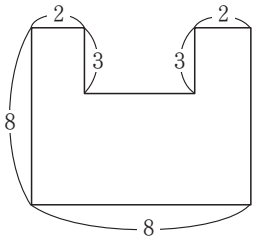
■練習問題■

2 次の図形の面積を求めよ。

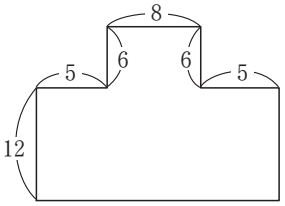
(1)



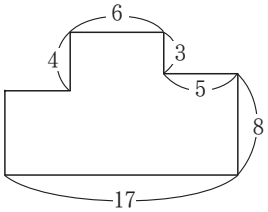
(2)



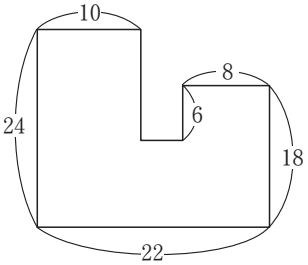
(3)



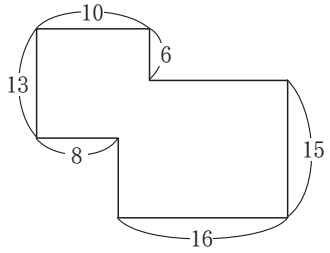
(4)



(5)



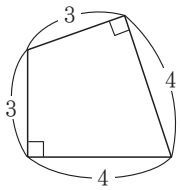
(6)

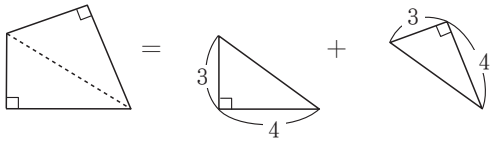


動きと解説でわかる!

例題 次の図形において，実線で囲まれた部分の面積を求めよ。

(1)

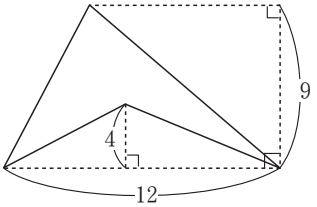


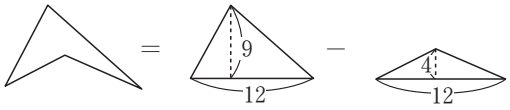


$S = \frac{1}{2}\times 3\times 4+\frac{1}{2}\times 3\times 4$

$= 6+6 = \mathbf{12}$

(2)





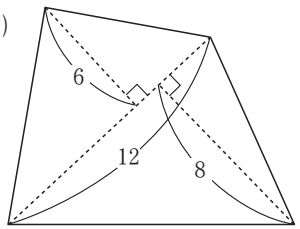
$S = \frac{1}{2}\times 12\times 9-\frac{1}{2}\times 12\times 4$

$= 54-24 = \mathbf{30}$

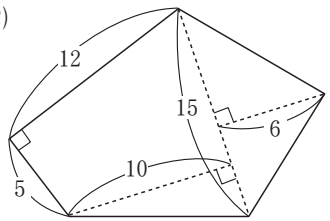
■練習問題■

3 次の図形において，実線で囲まれた部分の面積を求めよ。

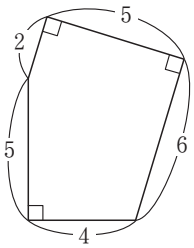
(1)



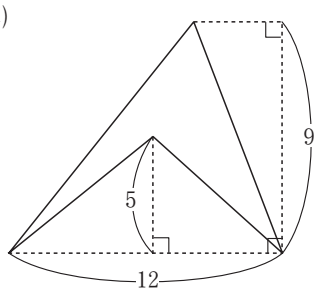
(2)



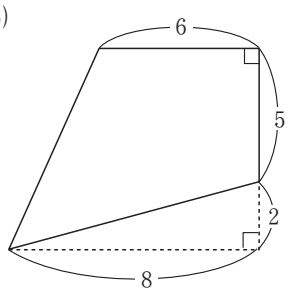
(3)



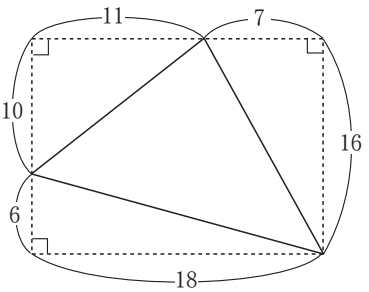
(4)



(5)



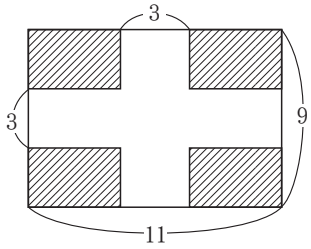
(6)

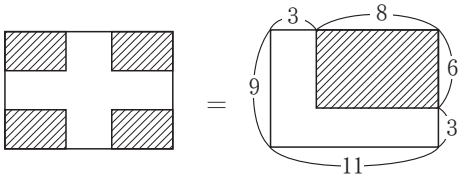


動きと解説でわかる!

例題 次の図形において，斜線部分の面積を求めよ。

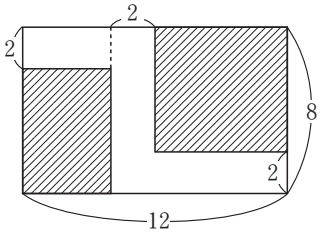
(1)

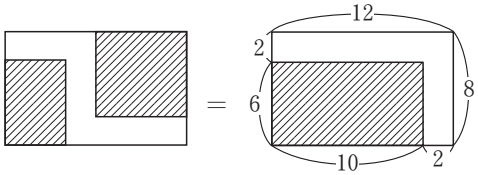




$S = 6 \times 8 = \mathbf{48}$

(2)



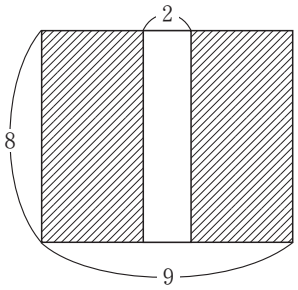


$S = 6 \times 10 = \mathbf{60}$

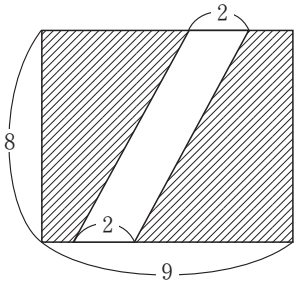
■練習問題■

4 次の図形において，斜線部分の面積を求めよ。

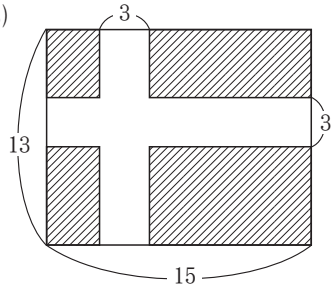
(1)



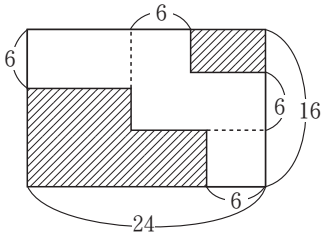
(2)



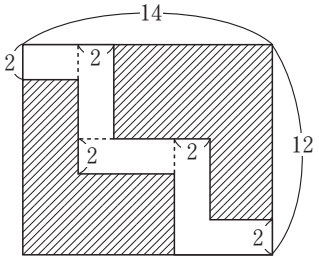
(3)



(4)



(5)



(6)