1984 FI4.1

在圖中, DE//BC, 若 AD=4, DB=6, DE=6, 且BC = a, 求a 的值。 In the figure, DE // BC. If AD = 4, DB = 6, DE = 6 and BC = a, find the value of a.

1991 HI20

在圖中, $\angle ABC = 90^{\circ} \cdot AK = BC$ 及 $E \cdot F$ 分別為 $AC \cdot$ KB 的中點。若 ∠AFE = x° , 求 x 的值。 In the figure, $\angle ABC = 90^{\circ}$, AK = BC and E, F are the mid-points of AC, KB respectively. K If $\angle AFE = x^{\circ}$, find x.

1992 HG6

在圖中, $BD = DC \cdot AP = AO \circ$ 若 $AB = 13 \text{ cm} \cdot$ AC = 7 cm 及 AP = x cm , 求 x 的值。 In the figure, BD = DC, AP = AQ. If AB = 13 cm, AC = 7 cm and AP = x cm, find the value of x.

1993 HG3

在圖中,三角形 ABC 的面積為 $10 \circ D \circ E$ 及 F 分別為 $AB \cdot BC$ 及 CA 上的點且滿足 AD: DB = 2:3,且 $\triangle ABE$ 的面積 = 四邊形 BEFD 的面積。求 $\triangle ABE$ 的面積。 As shown in the figure, the area of $\triangle ABC$ is 10. D, E, F are points on AB, BC and CArespectively such that AD:DB=2:3, and area of $\triangle ABE$ = area of quadrilateral BEFD. Find the area of $\triangle ABE$.

1998 HI7

在圖中,ABCD 為一長方形,其中 CD = 12,且 E 為 CD 上一點,使得 DE = 5。 若 M 為 AE 的中點,而 $P \cdot Q$ 為兩點分別躺於 AD 和 BC 上,使得 PMQ 為一直綫。 若 PM: MO = 5: k, 求 k 的值。

In the figure, ABCD is a rectangle with CD = 12. E is a point on CD such that DE = 5. M is the mid-point of AE and P, Q are points on AD and BC respectively such that P PMQ is a straight line.

If PM : MQ = 5 : k, find the value of k.

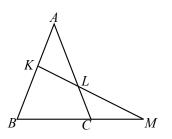
1999 FI3.3

E

F

В

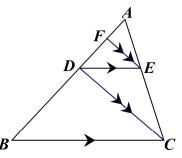
在圖中, AB = AC和 KL = LM。 若 LC = 1 cm 及 KB = c cm, 求 c 之值。 In the figure, AB = AC and KL = LM. If LC = 1 cm and KB = c cm, find the value of c.



2002 HI5

在 $\triangle ABC$, DE//BC, FE//DC, AF=2, FD=3 和 DB=X。求X的值。 In $\triangle ABC$, DE // BC, FE // DC, AF = 2,

FD = 3 and DB = X. Find the value of X.



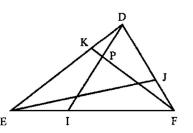
2003 HG10

圖中, ΔDEF 的面積是 $30 \text{ cm}^2 \circ EIF \setminus DJF$ 及 DKE 皆為直綫 $\circ P$ 是 DI 和 FK的相交點, EI: IF = 1:2, FJ: JD = 3:4, DK: KE = 2:3。

設 $\triangle DFP$ 的面積為 $B \text{ cm}^2$, 求 B 的值。

In the figure, the area of $\triangle DEF$ is 30 cm². EIF, DJFand DKE are straight lines. P is the intersection point of DI and FK. Let EI: IF = 1:2, FJ: JD = 3: 4, DK: KE = 2: 3.

Let the area of $\triangle DFP$ be $B \text{ cm}^2$, find the value of B.

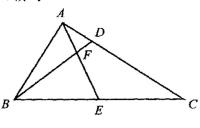


2009 HG10

如圖,ABC 是一三角形,E 是 BC 的中點,F 在 AE 上使得 AE = 3AF。 BF 的延綫與 AC 相交於 D。已知 ΔABC 的面積為 $48 \, \mathrm{cm}^2$ 。

設 ΔAFD 的面積為 g cm² , 求 g 的值。 In the figure, ABC is a triangle, E is the midpoint of BC, F is a point on AE where AE = 3AF.

The extension segment of BF meets AC at D. Given that the area of $\triangle ABC$ is 48 cm². Let the area of $\triangle AFD$ be g cm², find the value of g.



2010 FG1.4

在圖中,若 $AB \perp CD$,F 是 BE 的中點, $\angle A = 45^{\circ}$,DF = 3, BD = 4 及 AD = n,求n的 值。

In the figure, if $AB \perp CD$, F is the midpoint of BE, $\angle A = 45^{\circ}$, DF = 3, BD = 4 and AD = n, find the value of n.

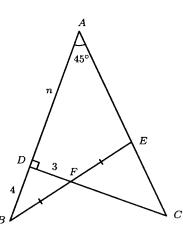


Figure 1 圖一

2022 P2O4

圖一所示為一正方形。每一條邊的中點都連接對邊的兩端點,由此形成一個四角星(著色部分)。

求 四角星的面積 的值。

Figure 1 shows a square. The midpoint of each side is joined to the two end points of the opposite side and a four-pointed star is thus formed (the shaded part).

Find the value of $\frac{\text{Area of the four point star}}{\text{Area of the square}}$

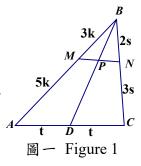
2023 HG5

在圖一中,M 和 N 分別是 ΔABC 的邊 AB 和 BC 上的點。MN 與 ΔABC 的中線相交於 P。

若
$$\frac{AM}{BM} = \frac{5}{3}$$
及 $\frac{CN}{BN} = \frac{3}{2}$ 。求 $\frac{DP}{BP}$ 的值。

In Figure 1, M and N are points on AB and BC of $\triangle ABC$ respectively. MN and the median of $\triangle ABC$ intersect at P.

If
$$\frac{AM}{BM} = \frac{5}{3}$$
 and $\frac{CN}{BN} = \frac{3}{2}$, find the value of $\frac{DP}{BP}$.



Answers

1984 FI4.1	1991 HI20	1992 HG6	1993 HG3	1998 HI7
15	45	10	6	19
1999 FI3.3 2	2002 HI5 7.5	2003 HG10 10	2009 HG10 8/5	2010 FG1.4 10
2022 P2Q4	2023 HG5			
1	19			
3	12			