1986 FG7.2

M、N 依次為(3, 2)及(9, 5)。若 $P(s, t)$為 MN 上一點使 $MP : PN = 4 : 2$，

求 s 的值。

M, N are the points (3, 2) and (9, 5) respectively.

If $P(s, t)$ is a point on MN such that $MP : PN = 4 : 2$, find the value of s.

1987 FI3.2

P，Q 之坐標依次為(a, 2)及(30, −6)。

若 PQ 的中點之座標為 (18, b)，求 a 的值。

The coordinates of the points P and Q are (a, 2) and (30, −6) respectively.

If the coordinates of the mid-point of PQ is (18, b), find the value of a.

1989 HG5

A(2, 3) 與 B(17, 23) 的連綫交 $2x - y = 7$ 於 P，求 $\dfrac{AP}{PB}$ 的值。

The line joining $A(2, 3)$ and $B(17, 23)$ meets the line $2x - y = 7$ at P.

Find the value of $\dfrac{AP}{PB}$.

1989 FI4.3

M 及 N 依次是 (1, 2)、(11, 7) 兩點。$P(a, b)$是 MN 上一點使 $MP : PN = 1 : 4$。求 a 的值。

M and N are the points (1, 2) and (11, 7) respectively. $P(a, b)$ is a point on MN such that $MP : PN = 1 : 4$. Find the value of a .

1990 HG3

A、B、C 及 D 的座標依次是(10, 1)、(1, 7)、(−2, 1) 及 (1, 3)。

AB 與 CD 相交於 P。求 $\dfrac{AP}{PB}$ 的值。

The coordinates of A, B, C and D are (10, 1), (1, 7), (−2, 1) and (1, 3) respectively.

AB and CD meet at P. Find the value of $\dfrac{AP}{PB}$.

2007 HG4

已知點 A、B 及 C 的坐標分別為 (3, 4)、(6, −4) 及 (8, 10)。

M 及 N 分別為 AB 及 BC 的中點。X 為 AN 上一點使得 $AX : XN = 2 : 1$。

若 $r = \dfrac{CX}{XM}$ ，求 r 的值。

Given that the coordinates of the points A, B and C are (3, 4), (6, –4) and (8,10) respectively. M and N are the midpoints of AB and BC respectively. X is a point on AN such that $AX : XN = 2 : 1$. If $r = \dfrac{CX}{XM}$, find the value of r .

Answers

1986 FG7.2 7	1987 FI3.2 6	1989 HG5 $\dfrac{3}{2}$	1989 FI4.3 3	1990 HG3 3
2007 HG4 2				