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 $\frac{3}{2}$	1989 FI4.3 3	1990 HG3 3
2007 HG4 2				