1984 FI2.3

點 A(5, c) 在直線 2y = x + 15 上,求 c 的值。

The point A(5, c) lies on the line 2y = x + 15. Find the value of c.

1987 FI4.3

直綫 5x + 17y + 2 = d 過點 (40, 5) 。求 d 的值。

The line 5x + 17y + 2 = d passes through (40, 5). Find the value of d.

1988 FG7.3

經過 (4,3) 及 (12,-3)的直綫方程是 $\frac{x}{a} + \frac{y}{b} = 1 \circ$ 求 a 的值。

The equation of the line through (4, 3) and (12, -3) is $\frac{x}{a} + \frac{y}{b} = 1$.

Find the value of a.

1989 FI2.2

假設點 (7,b) 在直綫 5x + 2y = 41 上。求b的值。

The point (7, b) lies on the line 5x + 2y = 41. Find the value of b.

1991 HI4

若方程 2x + 3y + a = 0 及 bx - 2y + 1 = 0 代表同一直綫,求 6(a + b) 的值。 If the equations 2x + 3y + a = 0 and bx - 2y + 1 = 0 represent the same line, find the value of 6(a + b).

1997 FI1.3

若 y = mx + c 的圖像經過 (4,5) 及 (-2,2) 雨點。求 c 的值。

Find the value of c so that the graph of y = mx + c passes through the two points (4, 5) and (-2, 2).

2000 HI10

求直綫 3x-y-4=0 與點 (2,2) 的最短距離。

Find the shortest distance between the line 3x - y - 4 = 0 and the point (2, 2).

2001 HI4

如果下列三條直綫相交於一點,求c的值。

If the following three straight lines intersect at one point, find the value of c.

$$L_1$$
: $6x + 6y - 19 = 0$

$$L_2$$
: $18x + 12y + c = 0$

$$L_3$$
: $2x + 3y - 8 = 0$

2003 FI4.2

已知三條直綫 4x + y = 4,mx + y = 0 和 2x - 3my = 4 不能構成一個三角形。若 m > 0 及 Q 是 m 的最小可能的值,求 Q 的值。

Given that the lines 4x + y = 4, mx + y = 0 and 2x - 3my = 4 cannot form a triangle. Suppose that m > 0 and Q is the minimum possible value of m, find the value of Q.

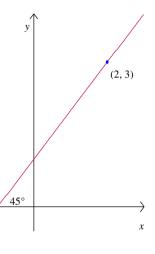
2004 FG2.4

若直綫 y=x+d 與 x=-y+d 相交於點 (d-1,d), 求 d 的值。 If the lines y=x+d and x=-y+d intersect at the point (d-1,d), find the value of d.

2007 FI1.2

如圖一,直綫 ℓ 經過點(2,3)並與x軸成 45°夾角。 若 ℓ 的方程是x+my+n=0及b=|1+m+n|,求 b 的值。

In Figure 1, the straight line ℓ passes though the point (2, 3), and makes an angle 45° with the *x*-axis. If the equation of ℓ is x+my+n=0 and b=|1+m+n|, find the value of b.



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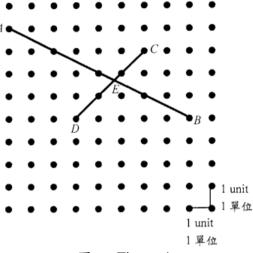
2017 HG1

設 ΔABC 為一等腰直角三角形,頂點 A 及 B 的座標分別為 (-2,0) 及 (18,0),且 C 的座標是正數。當 ΔABC 的面積為最小時,求 C 的座標。 Suppose that ΔABC is an isosceles right-angled triangle with the coordinates of the vertices A and B as (-2,0) and (18,0), respectively, and the coordinates of C having positive values. Determine the coordinates of C when the area of C attains its minimum.

Straight lines (HKMO Classified Questions by topics)

2019 HI7

在圖四中,AB 與 CD 相交於 E。設 AE 的長度為 q 單位,求 q 的值。 In Figure 4, AB and CE intersect at E. Let the length of AE be q units. Find the value of q.



圖四 Figure 4

2019 FI2.2

若直幾 y = mx + B 經過兩點 (4,5) 和 (-2,2), 求 B 的值。

If the straight line y = mx + B passes through the two points (4, 5) and (-2, 2), determine the value of B.

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Answers

1984 FI2.3	1987 FI4.3	1988 FG7.3	1989 FI2.2	1991 HI4
10	287	8	3	-17
1997 FI1.3 3	2000 HI10 0	2001 HI4 -47	2003 FI4.2 $\frac{2}{3}$	2004 FG2.4 1
2007 FI1.2 1	2017 HG1 (8, 10)	$ \begin{array}{r} 2019 \text{ HI7} \\ \hline \frac{7\sqrt{5}}{3} \end{array} $	2019 FI2.2 3	

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