1990 FI3.3

以 x 軸，y 軸及直線 $2x + y = 8$ 所圍成的三角形的面積是 c 平方單位，求 c 的值。

The area of the triangle formed by the x-axis, the y-axis and the line $2x + y = 8$ is c sq. units. Find the value of c .

1994 FI5.3

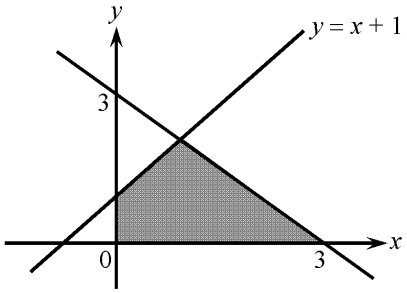
若一個由 x 軸、y 軸及直線 $36x + 9y = 18$ 所圍成之三角形之面積為 C，求 C 的值。

If C is the area of the triangle formed by x-axis, y-axis and the line $36x + 9y = 18$, find the value of C .

1996 FI4.1

圖中陰影部分面積是 a，求 a 的值。

In the figure, the area of the shaded region is a . Find the value of a.



1997 FI5.3

一三角形是由 x-軸、y-軸和直線 $30x + 60y = 120$ 所組成。若所包圍之三角形的面積為 c，求 c 的值。

The triangle is formed by the x-axis and y-axis and the line $30x + 60y = 120$. If the bounded area of the triangle is c, find the value of c .

1999 HG4

求直線 $x + 4y – 2 = 0$ 與兩條座標軸所圍成的三角形的面積。

Find the area enclosed by the straight line $x + 4y – 2 = 0$ and the two coordinate axes.

2001 HG7

求由 x-軸 及直線 $x – 3y = 0$、$x + y – 4 = 0$ 圍出的面積。

Find the area enclosed by the x-axis and the straight lines $x –3y = 0$, $x +y – 4 = 0$.

2002 HG3

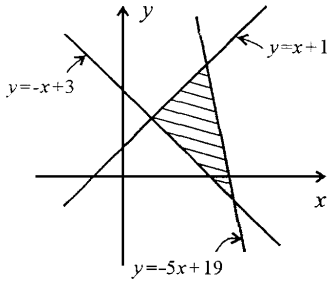
設在直角坐標平面上不等式 $|x| + |y| \le 3$ 圍出的多邊形內面積為 p，求 p 的數值。

Let p be the area of the polygon formed by the inequality $|x| + |y| \le 3$ in the Cartesian plane. Find the value of p.

2004 HI7

在圖中，設被三條直線 $y = –x + 3$，$y = x + 1$ 及 $y = –x + 19$ 所圍出的陰影部分的面積是 R，求 R 的值。

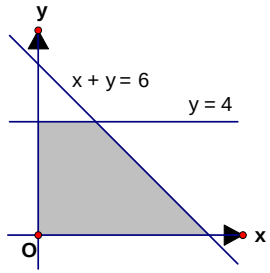
In the figure, let the shaded area formed by the three straight lines $y = –x + 3$, $y = x + 1$ and $y = –5x + 19$ be R, find the value of R .



2007 FI4.1

如圖一，設直線 $x + y = 6$，$y = 4$，$x = 0$ 及 $y = 0$ 所圍成的封閉區域的面積是 A 平方單位，求 A 的值。

In Figure 1, let the area of the closed region bounded by the straight line $x + y = 6$ and $y = 4$, $x = 0$ and $y = 0$ be A square units, find the value of A .



2007 FG2.4

在座標平面上，某圓以 $T(3, 3)$ 為中心及經過原點 $O(0, 0)$。若 A 為該圓上的一點使得 $\angle AOT = 45°$ 及 ΔAOT 的面積是 Q 個平方單位，求 Q 的值。

On the coordinate plane, a circle with centre $T(3, 3)$ passes through the origin $O(0, 0)$. If A is a point on the circle such that $\angle AOT = 45°$ and the area of ΔAOT is Q square units, find the value of Q .

2009 FG2.2

在座標平面上，若 x-軸、y-軸與直線 $3x + 16y = 12$ 所圍成三角形的面積是 b 平方單位，求 b 的值。

In the coordinate plane, if the area of the triangle formed by the x-axis, y-axis and the line $3x + 16y = 12$ is b square units, find the value of b .

2009 FG2.4

在座標平面上，用以下直線所圍成圖形的面積為 D 平方單位，求 D 的值。

In the coordinate plane, the area of the region bounded by the following lines is D square units, find the value of D .

L_1: $y – 2 = 0$

L_2: $y + 2 = 0$

L_3: $4x + 7y – 10 = 0$

L_4: $4x + 7y + 20 = 0$

2011 FIS.3

考慮直綫 $12x - 4y + 24 = 0$。若 x-軸、y-軸及此直綫所形成的三角形的面積為 R 平方單位，求 R 的值。

Consider the line $12x - 4y + 24 = 0$. If the area of the triangle formed by the x-axis, the y-axis and this line is R square units, what is the value of R?

Answers

1990 FI3.3 16	1994 FI5.3 $\frac{1}{2}$	1996 FI4.1 $\frac{7}{2}$	1997 FI5.3 4	1999 HG4 $\frac{1}{2}$
2001 HG7 2	2002 HG3 18	2004 HI7 6	2007 FI4.1 16	2007 FG2.4 9
2009 FI2.2 $\frac{3}{2}$	2009 FG2.4 30	2011 FIS.3 6		