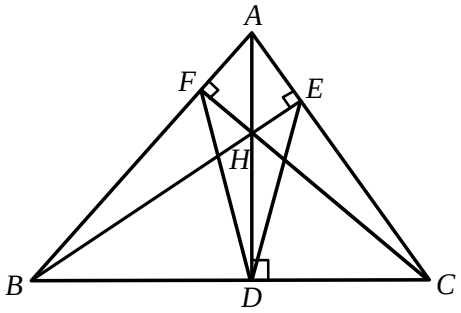
1989 FG9.1

圖中，$\angle BAC = 70°$，且$\angle FDE = x°$，
求 x 的值。

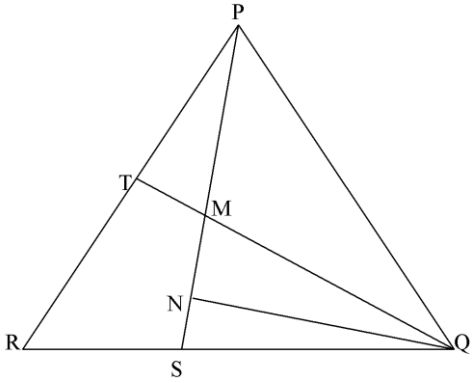
In the figure, $\angle BAC = 70°$ and $\angle FDE = x°$.
Find the value of x .



2000 HG6

如圖，ΔPQR 為一等邊三角形，$PT = RS$；
PS、QT 相交於 M；QN 垂直 PS 於 N。
設 $\angle QMN = x°$，求 x 的值。

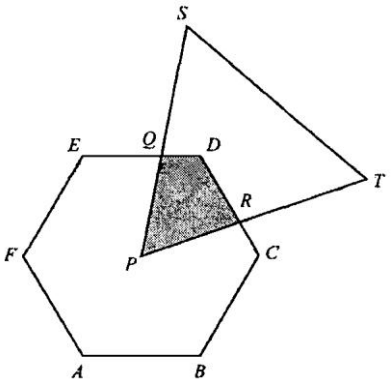
In the figure, ΔPQR is an equilateral triangle, $PT = RS$; PS, QT meet at M; and QN is perpendicular to PS at N .
Let $\angle QMN = x°$, find the value of x .



2009 HI7

在圖中，$ABCDEF$ 是一正六邊形，其中心點是 P。ΔPST 是一等邊三角形。已知 $AB = 6$ cm，$QD = 2$ cm 及 $PT = 12$ cm。若六邊形與三角形的公共部分面積為 c cm^2，求 c 的值。

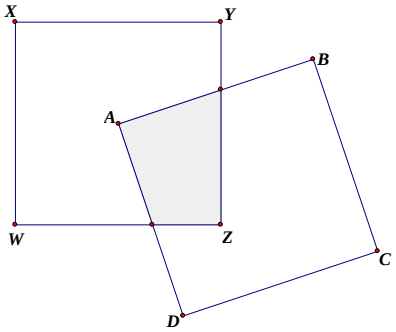
In the figure, $ABCDEF$ is a regular hexagon centred at the point P. ΔPST is an equilateral triangle. It is given that $AB = 6$ cm, $QD = 2$ cm and $PT = 12$ cm. If the area of the common part of the hexagon and triangle is c cm^2,
find the value of c .



2016 FI2.3

在下圖中，正方形 $ABCD$ 及 $XYZW$ 相等而且互相交疊使得頂點 A 位在 $XYZW$ 的中心及綫段 AB 將綫段 YZ 邊分為 1 : 2。若 $XYZW$ 的面積與交疊部分的面積比率為 c : 1，
求 c 的值。

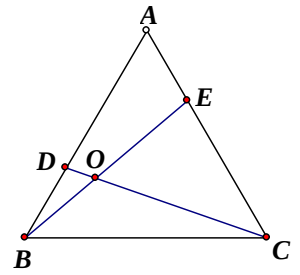
In the figure, identical squares $ABCD$ and $XYZW$ overlap each other in such a way that the vertex A is at the centre of $XYZW$ and the line segment AB cuts line segment YZ into 1 : 2. If the ratio of the area of $XYZW$ to the overlapped region is c : 1 , determine the value of c .



2019 HI1

在圖一中，ABC 是一個等邊三角形。D 和 E 分別是 AB 和 AC 上的點，使得 $AE = BD$。若 CD 和 BE 相交於 O 及 $\angle COE = y°$，求 y 的值。

In Figure 1, ABC is an equilateral triangle. D and E are points on AB and AC respectively such that $AE = BD$. Id CD and BE intersect at O and $\angle COE = y°$,
find the value of y .



Answers

1989 FG9.1 40	2000 HG6 60	2009 HI7 $9\sqrt{3}$	2016 FI2.3 4	2019 HI1 60