Created by Mr. Francis Hung

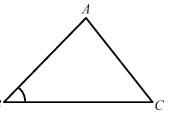
Last updated: 2016-04-25

1985 FI5.3

在圖中, $\angle ABC = 30^{\circ}$,且 $AC = 45 \text{ cm} \circ \angle ABC$ 之外接圓半徑為v cm,求v的值。

In the Figure, $\angle ABC = 30^{\circ}$ and AC = 45 cm.

If the radius of the circumcircle of $\triangle ABC$ is v cm, find the value of v.



1989 HI10

在某三角形中,各內角正弦的比是 3:4:5。若 A 是這個三角形的最小內角,且 $\tan A = \frac{x}{16}$,求 x 的值。

The sines of the three angles of a triangle are in the ratio 3:4:5. If A is the smallest interior angle of the triangle and $\tan A = \frac{x}{16}$, find the value of x.

1990 HI6

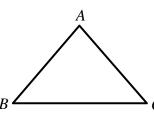
某三角形各內角正弦的比為3:4:5。

若 A 為該三角形的最小內角,且 $\cos A = \frac{x}{5}$,求 x 的值。

The sines of the angles of a triangle are in the ratio 3:4:5. If A is the smallest interior angle of the triangle and $\cos A = \frac{x}{5}$, find the value of x.

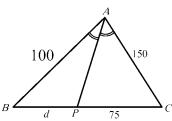
1991 HI19

在圖中,AB = AC = 6 cm 及 BC = 9.6 cm。若 ΔABC 的外接圓的直徑是 x cm,求 x 的值。 In the figure, AB = AC = 6 cm and BC = 9.6 cm. If the diameter of the circumcircle of ΔABC is x cm, B find the value of x.



1993 FI2.4

圖中AP等分 $\angle BAC$ 。已知AB = 100,BP = d,PC = 75 及AC = 150,求d的值。
In the figure, AP bisects $\angle BAC$. Given that AB = 100, BP = d, PC = 75 and AC = 150, find the value of d.

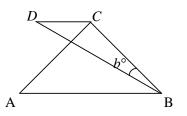


1998 FG3.1

In $\triangle ABC$, $\angle ABC = 2\angle ACB$, BC = 2AB. If $\angle BAC = a^{\circ}$, find the value of a.

1999 FG1.2

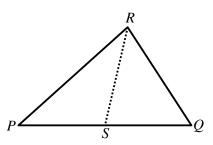
在圖一,AB 平行於 DC, $\angle ACB$ 為一直角,AC = CB 及 AB = BD.,若 $\angle CBD = b^{\circ}$,求 b 之值。 In the figure, AB is parallel to DC, $\angle ACB$ is a right angle, AC = CB and AB = BD. If $\angle CBD = b^{\circ}$, find the value of b.



2001 HG8

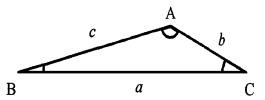
如圖中,PQR 是一個三角形,S 是 PQ 上的中點,RQ = PS = SQ,且 $\angle RQS = 2\angle RPS$.。 設 $\angle PSR = x^{\circ}$,求 x 的值。

In the figure, PQR is a triangle, S is the mid-point of PQ, RQ = PS = SQ, and $\angle RQS = 2\angle RPS$. Let $\angle PSR = x^{\circ}$, find the value of x.



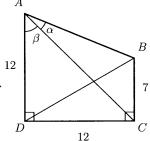
2003 HG3

圖中, $\angle A: \angle B: \angle C=3:2:1$,a:b:c=2:k:1,求 k 的值。
In the figure, $\angle A: \angle B: \angle C=3:2:1$, a:b:c=2:k:1, find the value of k.



2010 HI7

在圖一中,ABCD 是一梯形。AD、BC 和 DC 的長分別為 12、7 和 12。若 DC 分別垂直於 AD 及 BC,求 $\frac{\sin\alpha}{\sin\beta}$ 的值。



In the figure, ABCD is a trapezium. The lengths of segments AD, BC and DC are 12, 7 and 12 respectively. If segments AD and BC are both perpendicular to DC,

find the value of $\frac{\sin \alpha}{\sin \beta}$

Answers

1985 FI5.3	1989 HI10	1990 HI6	1991 HI19	1993 FI2.4
45	12	4	10	50
1998 FG3.1 90	1999 FG1.2 15	2001 HG8 120	2003 HG3 $\sqrt{3}$	2010 HI7 $\frac{7}{13}$