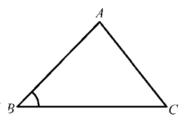
1985 FI5.3

在圖中, $\angle ABC = 30^{\circ}$,且AC = 45 cm。 若 ΔABC 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。

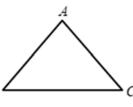
若 A 為該三角形的最小內角,且 $\cos A = \frac{x}{5}$,求 x 的值。

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 $\triangle ABC$ is x cm, find the value of x.



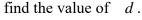
100

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,



1998 FG3.1

在 $\triangle ABC$ 中, $\angle ABC = 2\angle ACB$,BC = 2AB。若 $\angle BAC = a^{o}$,求 a 的值。

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。

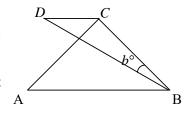
In the figure, AB is parallel to DC, $\angle ACB$ is a right angle, AC = CB and AB = BD.

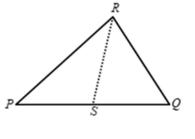
If $\angle CBD = b^{\circ}$, find the value of b.

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.

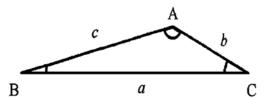




2003 HG3

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. B

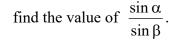


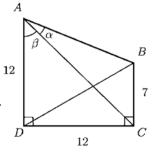
2010 HI7

在圖一中,ABCD 是一梯形。 $AD \setminus BC$ 和 DC 的長分別為 $12 \cdot 7$ 和 $12 \cdot$ 若 DC 分別垂直於 AD 及 BC, $\sin \alpha$

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. D If segments AD and BC are both perpendicular to DC,

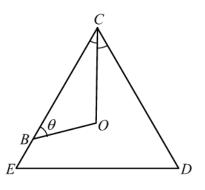




2019 FI4.1

 ΔCDE 為一個等邊三角形。點 O 在 ΔCDE 內。若點 B 在 CE 上, $\theta = \angle CBO$,OC 為 $\angle DCE$ 的角平分綫,以及 OC:OB=5:4,求 $\alpha = \sin \theta$ 的值。

 $\triangle CDE$ is an equilateral triangle. Point *O* is inside $\triangle CDE$. If point *B* lies on CE, $\theta = \angle CBO$, $\angle DCE$ is bisected by OC, and OC: OB = 5: 4, determine the value of $\alpha = \sin \theta$.



2024 HI12

 \dot{a} ΔABC 的邊長為 9、10 及 17,求 ΔABC 外接圓的半徑。 If the lengths of the three sides of a ΔABC are 9, 10 and 17, find the radius of the circum-circle of ΔABC .

Answers

1985 FI5.3 45	1989 HI10 12	1990 HI6 4	1991 HI19 10	1993 FI2.4 50
1998 FG3.1 90	1999 FG1.2 15	2001 HG8 120	2003 HG3 $\sqrt{3}$	2010 HI7 $\frac{7}{13}$
2019 FI4.1 $\frac{5}{8}$	2024 HI12 85 8			