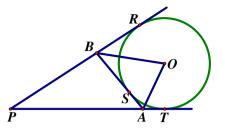
Created by Mr. Francis Hung

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1985 FI5.4

在圖二中, ΔPAB 由切於圓之三切綫形成,且 O 為圓心,若 $\angle APB$ =40°,且 $\angle AOB$ = w°,求w 的值。

In Figure 2, $\triangle PAB$ is formed by the 3 tangents of the circle with centre O. If $\angle APB = 40^{\circ}$ and $\angle AOB = w^{\circ}$, find the value of w.



1985 FG9.2

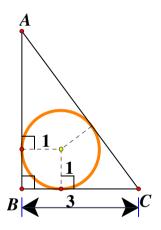
 ΔLMN 之三邊長分別為 $8 \cdot 15$ 及 $17 \circ \dot{\pi} \Delta LMN$ 之內接圓之半徑為 r ,求 r 的值。 The lengths of the 3 sides of ΔLMN are 8, 15 and 17 respectively.

If r is the length of the radius of the circle inscribed in ΔLMN , find the value of r.

1989 HG9

在圖中, $\angle B = 90^{\circ}$ 、BC = 3,且 $\triangle ABC$ 的內切圓 半徑長 1 單位,求 AC 的長度。

In the figure, $\angle B = 90^{\circ}$, BC = 3 and the radius of the inscribed circle of $\triangle ABC$ is 1. Find the length of AC.



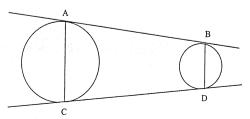
1995 FI4.1



find the value of r.

1998 FGS.1

在圖中,有兩外公切綫,此外公切綫與 圓相交於點 $A \cdot B \cdot C \otimes D \circ \stackrel{\sim}{=} AC = 9 \text{ cm}$, BD = 3 cm, $\angle BAC = 60 \circ \otimes AB = s \text{ cm}$, 求 s 的值。

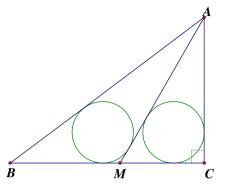


In the figure, there are two common tangents. These common tangents meet the circles at points A, B, C and D. If AC = 9 cm, BD = 3 cm, $\angle BAC = 60^{\circ}$ and AB = s cm, find the value of s.

2011 HG10

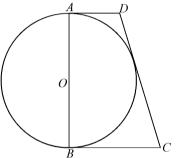
如圖,AC=3,BC=4 及 $\angle C=90^{\circ}$ 。M 是 BC 上的一點使得 ΔABM 及 ΔACM 的内切圓的半徑相等。求 ΔAM 的長。

As shown in the figure, AC = 3, BC = 4 and $\angle C = 90^{\circ}$. M is a point on BC such that the radii of the incircles in $\triangle ABM$ and $\triangle ACM$ are equal. Find the length of AM.



2013 FG3.4

在圖中,AD、BC 和 CD 是以 O 作圓心且直徑 AB = 12 的圓的切綫。若 AD = 4,求 BC 的值。 In the figure, AD, BC and CD are tangents to the circle with centre at O and diameter AB = 12. If AD = 4, find the value of BC.



2019 HI12

在三角形 ABC 中,AB = 14、BC = 48 及 AC = 50。將 P 及 Q 分別記為 ΔABC 的內心及外心。設 PQ 的長度為 d 單位。求 d 的值。

In triangle ABC, AB = 14, BC = 48 and AC = 50. Denote the in-centre and circumcentre of $\triangle ABC$ by P and Q respectively. Let the length of PQ be d units. Find the value of d.

Answers

1985 FI5.4	1985 FG9.2	1989 HG9	1995 FI4.1	1998 FGS.1
70	3	5	3	6
2011 HG10	2013 FG3.4	2019 HI5		
$2\sqrt{3}$	9	26		