

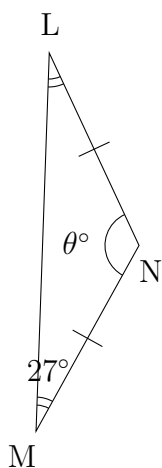
Name: \_\_\_\_\_

Date: \_\_\_\_\_

Angles in a Triangle: Answers

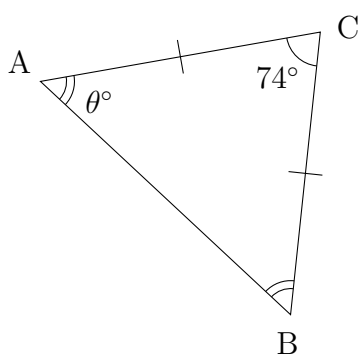
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(1)



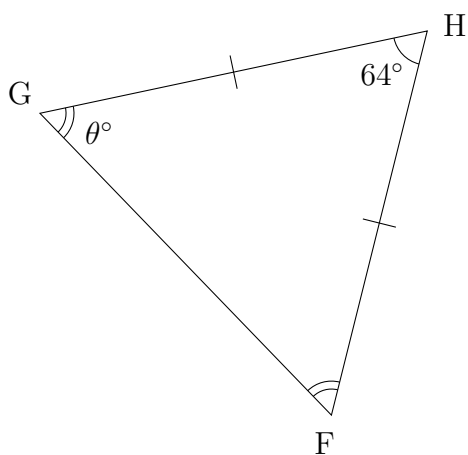
$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle L + \angle M) \\ &= 180^\circ - (27^\circ + 27^\circ) \\ &= 180^\circ - 54^\circ \\ &= 126^\circ\end{aligned}$$

(2)



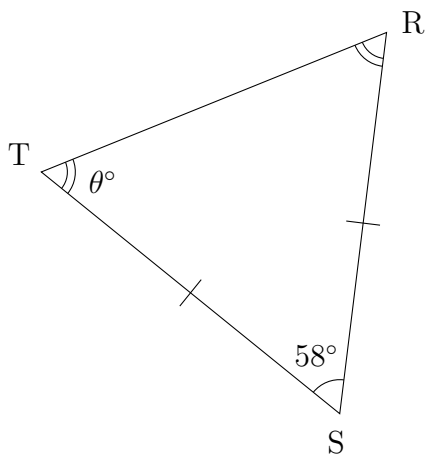
$$\begin{aligned}\theta^\circ &= \frac{(180^\circ - \angle C)}{2} \\ &= \frac{(180^\circ - 74^\circ)}{2} \\ &= \frac{106^\circ}{2} \\ &= 53^\circ\end{aligned}$$

(3)



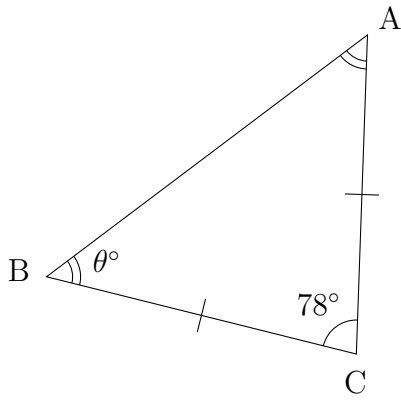
$$\begin{aligned}\theta^\circ &= \frac{(180^\circ - \angle H)}{2} \\ &= \frac{(180^\circ - 64^\circ)}{2} \\ &= \frac{116^\circ}{2} \\ &= 58^\circ\end{aligned}$$

(4)



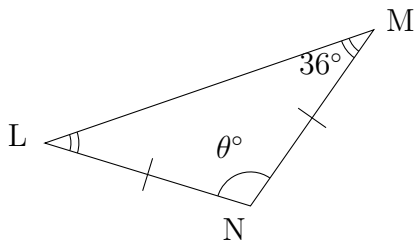
$$\begin{aligned}\theta^\circ &= \frac{(180^\circ - \angle S)}{2} \\ &= \frac{(180^\circ - 58^\circ)}{2} \\ &= \frac{122^\circ}{2} \\ &= 61^\circ\end{aligned}$$

(5)



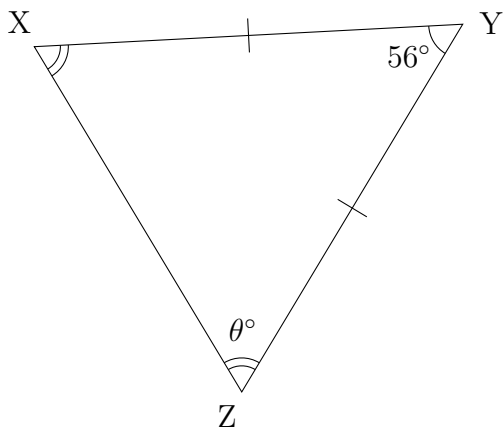
$$\begin{aligned}\theta^\circ &= \frac{(180^\circ - \angle C)}{2} \\ &= \frac{(180^\circ - 78^\circ)}{2} \\ &= \frac{102^\circ}{2} \\ &= 51^\circ\end{aligned}$$

(6)



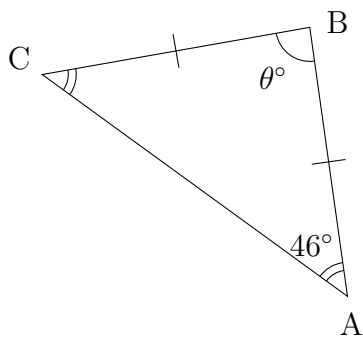
$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle M + \angle L) \\ &= 180^\circ - (36^\circ + 36^\circ) \\ &= 180^\circ - 72^\circ \\ &= 108^\circ\end{aligned}$$

(7)



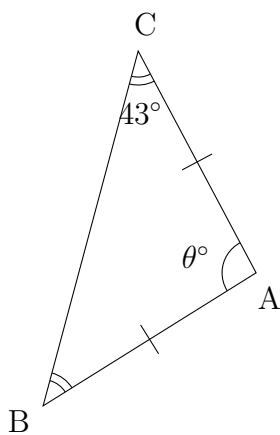
$$\begin{aligned}\theta^\circ &= \frac{(180^\circ - \angle Y)}{2} \\ &= \frac{(180^\circ - 56^\circ)}{2} \\ &= \frac{124^\circ}{2} \\ &= 62^\circ\end{aligned}$$

(8)



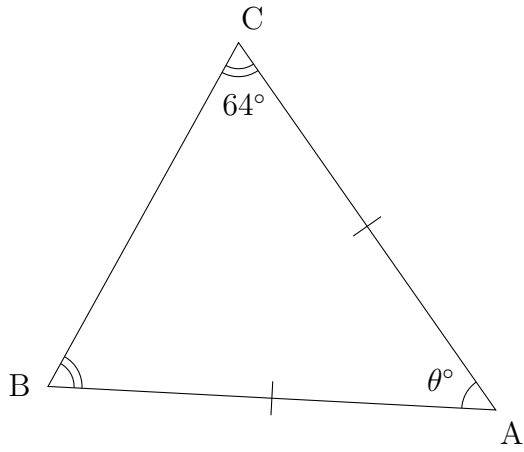
$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle C + \angle A) \\ &= 180^\circ - (46^\circ + 46^\circ) \\ &= 180^\circ - 92^\circ \\ &= 88^\circ\end{aligned}$$

(9)



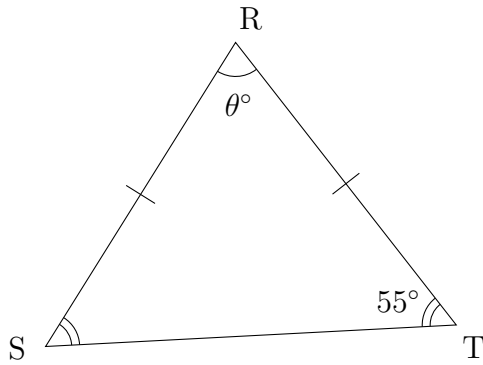
$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle C + \angle B) \\ &= 180^\circ - (43^\circ + 43^\circ) \\ &= 180^\circ - 86^\circ \\ &= 94^\circ\end{aligned}$$

(10)



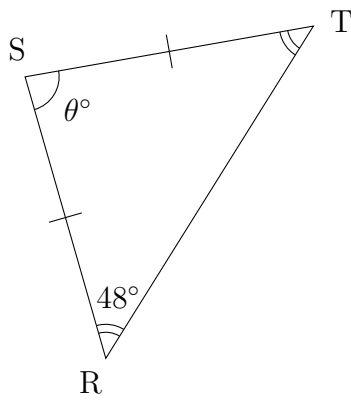
$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle C + \angle B) \\ &= 180^\circ - (64^\circ + 64^\circ) \\ &= 180^\circ - 128^\circ \\ &= 52^\circ\end{aligned}$$

(11)



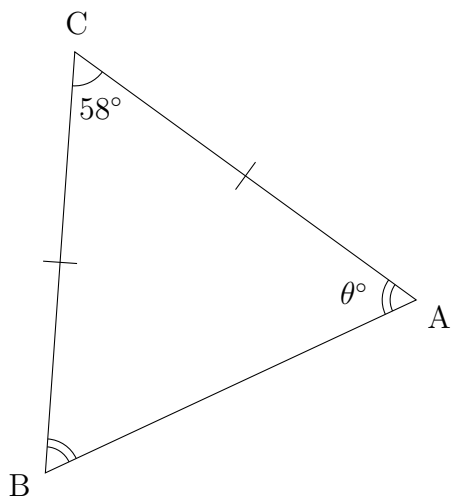
$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle S + \angle T) \\ &= 180^\circ - (55^\circ + 55^\circ) \\ &= 180^\circ - 110^\circ \\ &= 70^\circ\end{aligned}$$

(12)



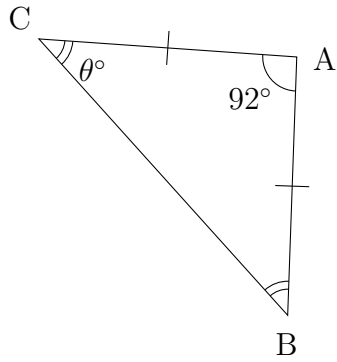
$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle R + \angle T) \\ &= 180^\circ - (48^\circ + 48^\circ) \\ &= 180^\circ - 96^\circ \\ &= 84^\circ\end{aligned}$$

(13)



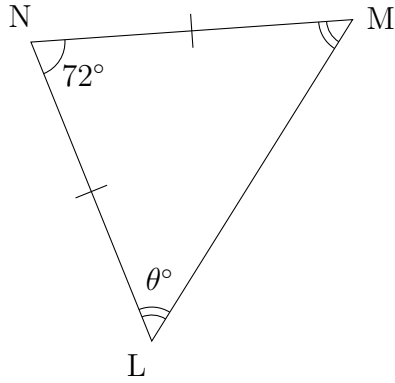
$$\begin{aligned}\theta^\circ &= \frac{(180^\circ - \angle C)}{2} \\ &= \frac{(180^\circ - 58^\circ)}{2} \\ &= \frac{122^\circ}{2} \\ &= 61^\circ\end{aligned}$$

(14)



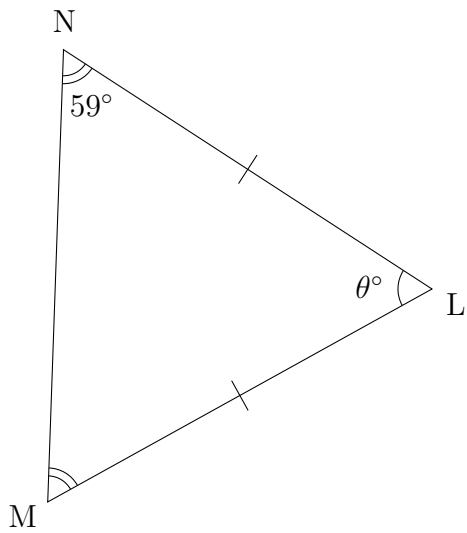
$$\begin{aligned}
 \theta^\circ &= \frac{(180^\circ - \angle A)}{2} \\
 &= \frac{(180^\circ - 92^\circ)}{2} \\
 &= \frac{88^\circ}{2} \\
 &= 44^\circ
 \end{aligned}$$

(15)



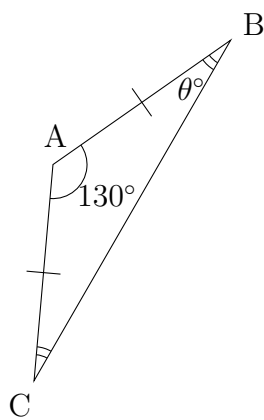
$$\begin{aligned}
 \theta^\circ &= \frac{(180^\circ - \angle N)}{2} \\
 &= \frac{(180^\circ - 72^\circ)}{2} \\
 &= \frac{108^\circ}{2} \\
 &= 54^\circ
 \end{aligned}$$

(16)



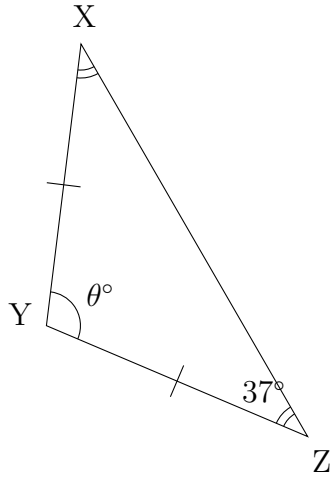
$$\begin{aligned}
 \theta^\circ &= 180^\circ - (\angle N + \angle M) \\
 &= 180^\circ - (59^\circ + 59^\circ) \\
 &= 180^\circ - 118^\circ \\
 &= 62^\circ
 \end{aligned}$$

(17)



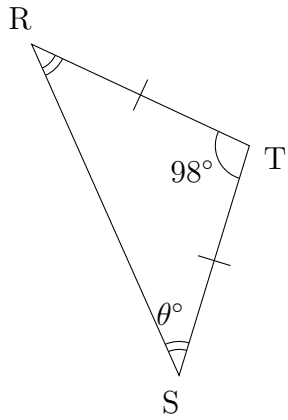
$$\begin{aligned}
 \theta^\circ &= \frac{(180^\circ - \angle A)}{2} \\
 &= \frac{(180^\circ - 130^\circ)}{2} \\
 &= \frac{50^\circ}{2} \\
 &= 25^\circ
 \end{aligned}$$

(18)



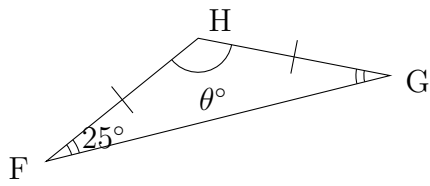
$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle Z + \angle X) \\ &= 180^\circ - (37^\circ + 37^\circ) \\ &= 180^\circ - 74^\circ \\ &= 106^\circ\end{aligned}$$

(19)



$$\begin{aligned}\theta^\circ &= \frac{(180^\circ - \angle T)}{2} \\ &= \frac{(180^\circ - 98^\circ)}{2} \\ &= \frac{82^\circ}{2} \\ &= 41^\circ\end{aligned}$$

(20)



$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle F + \angle G) \\ &= 180^\circ - (25^\circ + 25^\circ) \\ &= 180^\circ - 50^\circ \\ &= 130^\circ\end{aligned}$$