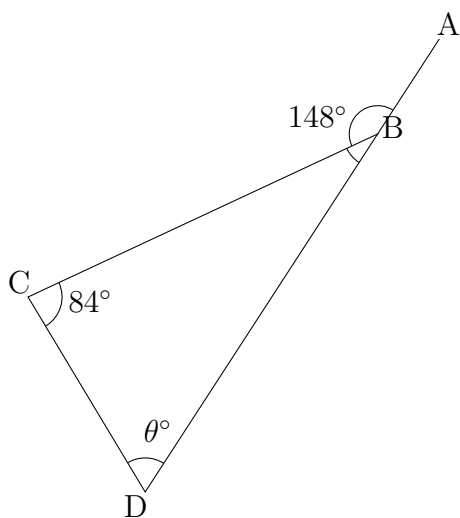


Name: _____

Date: _____

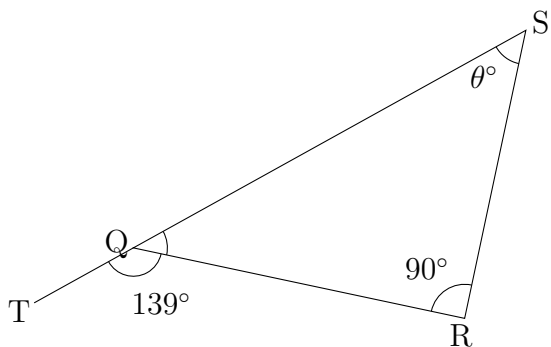
Angles in a Triangle: Answers

(1)



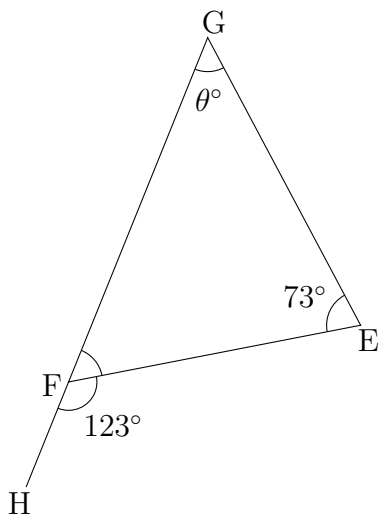
$$\begin{aligned}\angle D &= \angle ABC - \angle C \\ &= 148^\circ - 84^\circ \\ &= 64^\circ\end{aligned}$$

(2)



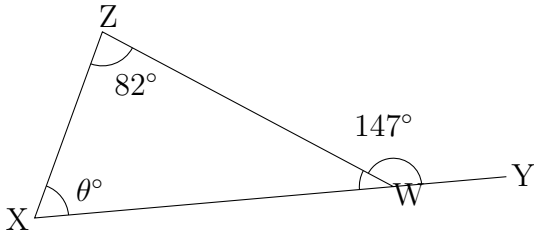
$$\begin{aligned}\angle S &= \angle TQR - \angle R \\ &= 139^\circ - 90^\circ \\ &= 49^\circ\end{aligned}$$

(3)



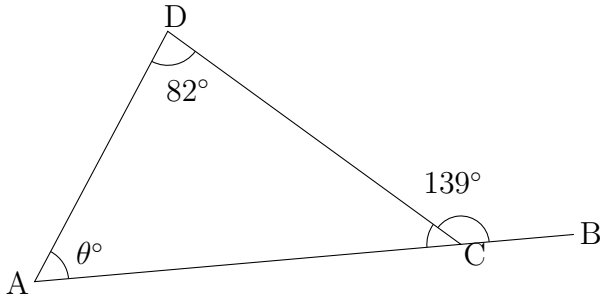
$$\begin{aligned}\angle G &= \angle HFE - \angle E \\ &= 123^\circ - 73^\circ \\ &= 50^\circ\end{aligned}$$

(4)



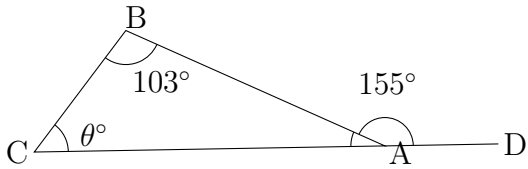
$$\begin{aligned}\angle X &= \angle YWZ - \angle Z \\ &= 147^\circ - 82^\circ \\ &= 65^\circ\end{aligned}$$

(5)



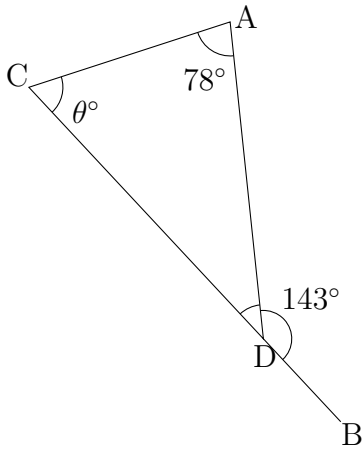
$$\begin{aligned}\angle A &= \angle BCD - \angle D \\ &= 139^\circ - 82^\circ \\ &= 57^\circ\end{aligned}$$

(6)



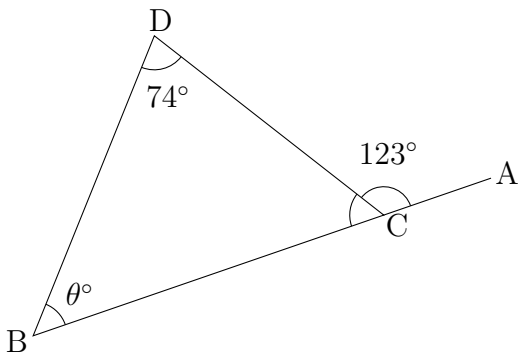
$$\begin{aligned}\angle C &= \angle DAB - \angle B \\ &= 155^\circ - 103^\circ \\ &= 52^\circ\end{aligned}$$

(7)



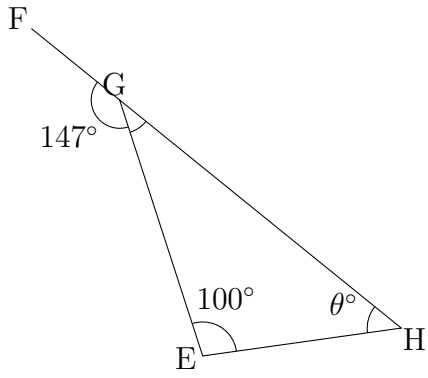
$$\begin{aligned}\angle C &= \angle BDA - \angle A \\ &= 143^\circ - 78^\circ \\ &= 65^\circ\end{aligned}$$

(8)



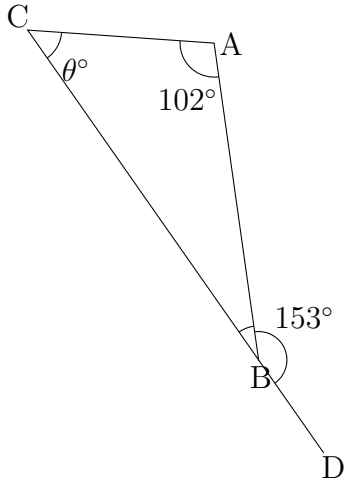
$$\begin{aligned}\angle B &= \angle ACD - \angle D \\ &= 123^\circ - 74^\circ \\ &= 49^\circ\end{aligned}$$

(9)



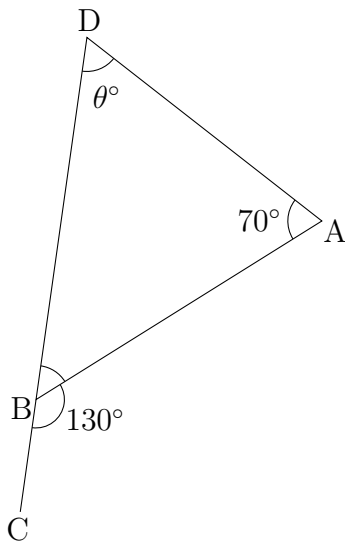
$$\begin{aligned}\angle H &= \angle FGE - \angle E \\ &= 147^\circ - 100^\circ \\ &= 47^\circ\end{aligned}$$

(10)



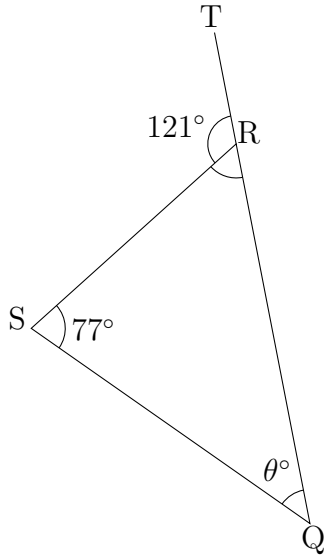
$$\begin{aligned}\angle C &= \angle DBA - \angle A \\ &= 153^\circ - 102^\circ \\ &= 51^\circ\end{aligned}$$

(11)



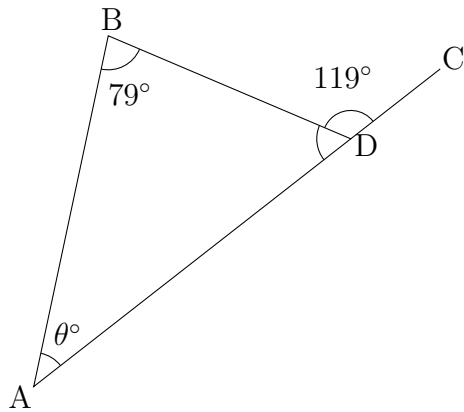
$$\begin{aligned}\angle D &= \angle CBA - \angle A \\ &= 130^\circ - 70^\circ \\ &= 60^\circ\end{aligned}$$

(12)



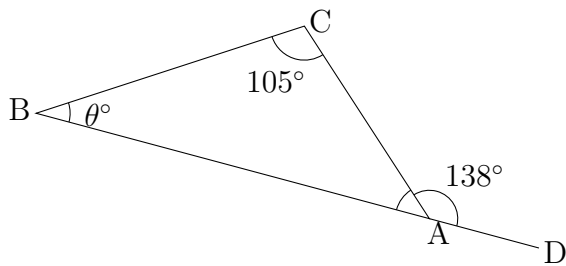
$$\begin{aligned}\angle Q &= \angle TRS - \angle S \\ &= 121^\circ - 77^\circ \\ &= 44^\circ\end{aligned}$$

(13)



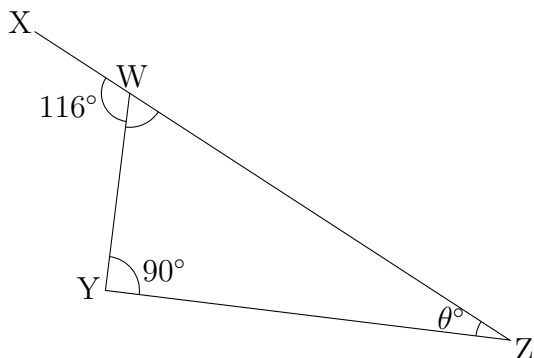
$$\begin{aligned}\angle A &= \angle CDB - \angle B \\ &= 119^\circ - 79^\circ \\ &= 40^\circ\end{aligned}$$

(14)



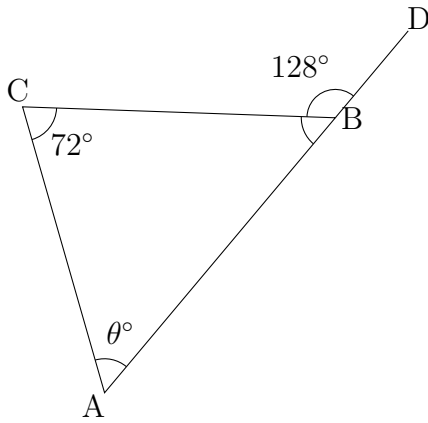
$$\begin{aligned}\angle B &= \angle DAC - \angle C \\ &= 138^\circ - 105^\circ \\ &= 33^\circ\end{aligned}$$

(15)



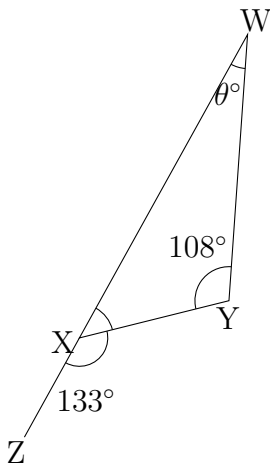
$$\begin{aligned}\angle Z &= \angle XWY - \angle Y \\ &= 116^\circ - 90^\circ \\ &= 26^\circ\end{aligned}$$

(16)



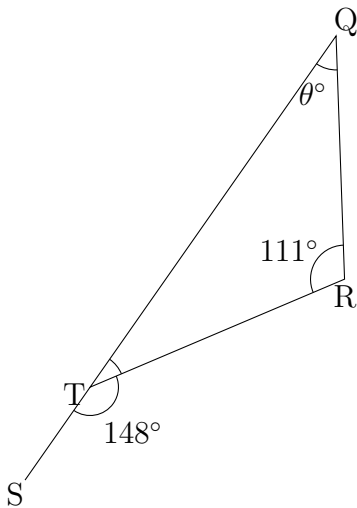
$$\begin{aligned}\angle A &= \angle DBC - \angle C \\ &= 128^\circ - 72^\circ \\ &= 56^\circ\end{aligned}$$

(17)



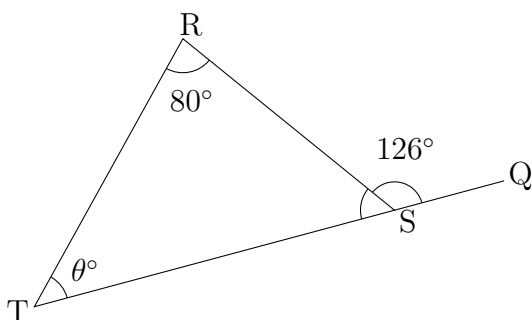
$$\begin{aligned}\angle W &= \angle ZXY - \angle Y \\ &= 133^\circ - 108^\circ \\ &= 25^\circ\end{aligned}$$

(18)



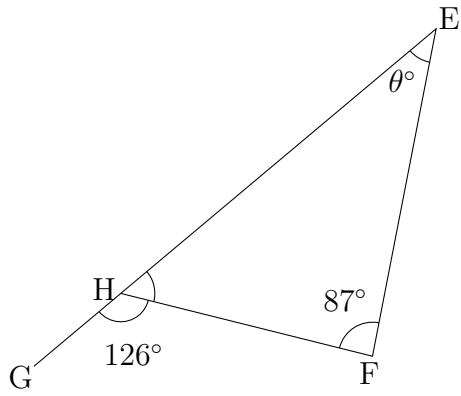
$$\begin{aligned}\angle Q &= \angle STR - \angle R \\ &= 148^\circ - 111^\circ \\ &= 37^\circ\end{aligned}$$

(19)



$$\begin{aligned}\angle T &= \angle QSR - \angle R \\ &= 126^\circ - 80^\circ \\ &= 46^\circ\end{aligned}$$

(20)



$$\begin{aligned}\angle E &= \angle GHF - \angle F \\ &= 126^\circ - 87^\circ \\ &= 39^\circ\end{aligned}$$