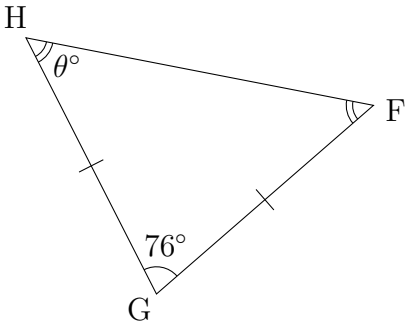
Name: _____ **Date:** _____

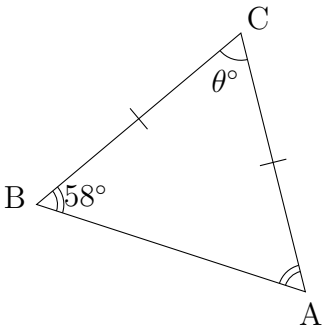
Angles in an Isosceles Triangle: Questions

(1)



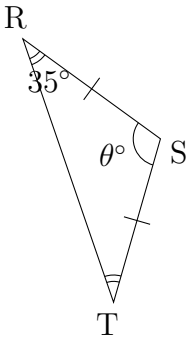
$$\begin{aligned}\theta^\circ &= \frac{(180^\circ - \angle\ldots\ldots)}{2} \\ &= \frac{(180^\circ - \ldots\ldots^\circ)}{2} \\ &= \frac{\ldots\ldots^\circ}{2} \\ &= \ldots\ldots^\circ\end{aligned}$$

(2)



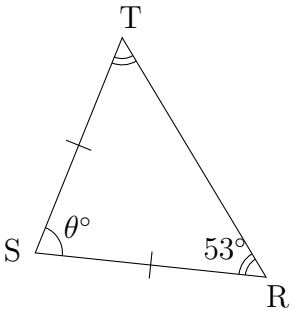
$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle\ldots\ldots + \angle\ldots\ldots) \\ &= 180^\circ - (\ldots\ldots^\circ + \ldots\ldots^\circ) \\ &= 180^\circ - \ldots\ldots^\circ \\ &= \ldots\ldots^\circ\end{aligned}$$

(3)



$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle\ldots\ldots + \angle\ldots\ldots) \\ &= 180^\circ - (\ldots\ldots^\circ + \ldots\ldots^\circ) \\ &= 180^\circ - \ldots\ldots^\circ \\ &= \ldots\ldots^\circ\end{aligned}$$

(4)

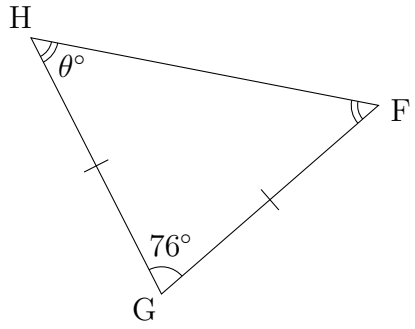


$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle\ldots\ldots + \angle\ldots\ldots) \\ &= 180^\circ - (\ldots\ldots^\circ + \ldots\ldots^\circ) \\ &= 180^\circ - \ldots\ldots^\circ \\ &= \ldots\ldots^\circ\end{aligned}$$

Name: _____ **Date:** _____

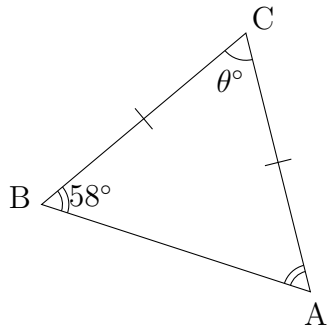
Angles in an Isosceles Triangle: Answers

(1)



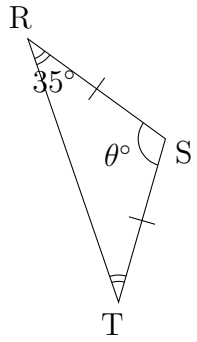
$$\begin{aligned}\theta^\circ &= \frac{(180^\circ - \angle \mathrm{G})}{2} \\ &= \frac{(180^\circ - 76^\circ)}{2} \\ &= \frac{104^\circ}{2} \\ &= 52^\circ\end{aligned}$$

(2)



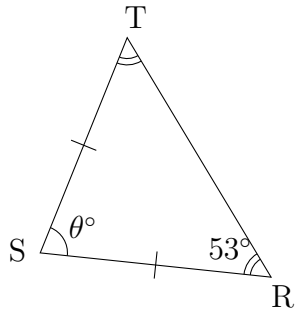
$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle \mathrm{B} + \angle \mathrm{A}) \\ &= 180^\circ - (58^\circ + 58^\circ) \\ &= 180^\circ - 116^\circ \\ &= 64^\circ\end{aligned}$$

(3)



$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle \mathrm{R} + \angle \mathrm{T}) \\ &= 180^\circ - (35^\circ + 35^\circ) \\ &= 180^\circ - 70^\circ \\ &= 110^\circ\end{aligned}$$

(4)



$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle \mathrm{R} + \angle \mathrm{T}) \\ &= 180^\circ - (53^\circ + 53^\circ) \\ &= 180^\circ - 106^\circ \\ &= 74^\circ\end{aligned}$$