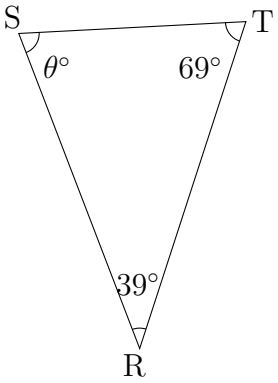
**Name:** _____ **Date:** _____

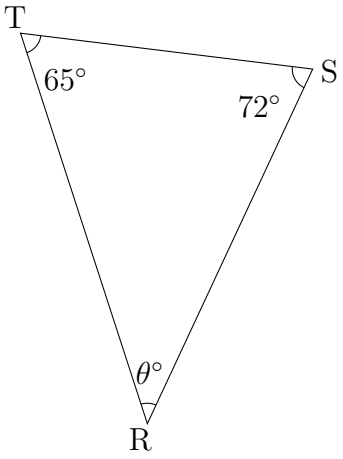
Angles in a Triangle: Questions

(1)



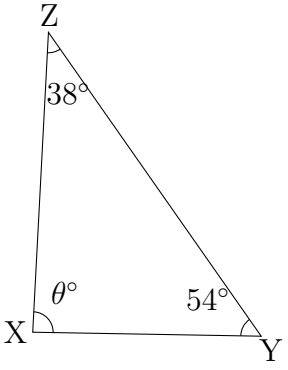

$\theta^\circ = 180^\circ - (\angle\ldots\ldots + \angle\ldots\ldots)$
$= 180^\circ - (\ldots\ldots^\circ + \ldots\ldots^\circ)$
$= 180^\circ - \ldots\ldots^\circ$
$= \ldots\ldots^\circ$

(2)



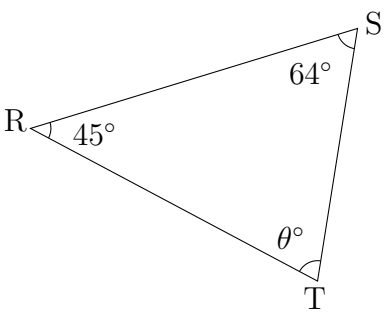

$\theta^\circ = 180^\circ - (\angle\ldots\ldots + \angle\ldots\ldots)$
$= 180^\circ - (\ldots\ldots^\circ + \ldots\ldots^\circ)$
$= 180^\circ - \ldots\ldots^\circ$
$= \ldots\ldots^\circ$

(3)




$\theta^\circ = 180^\circ - (\angle\ldots\ldots + \angle\ldots\ldots)$
$= 180^\circ - (\ldots\ldots^\circ + \ldots\ldots^\circ)$
$= 180^\circ - \ldots\ldots^\circ$
$= \ldots\ldots^\circ$

(4)

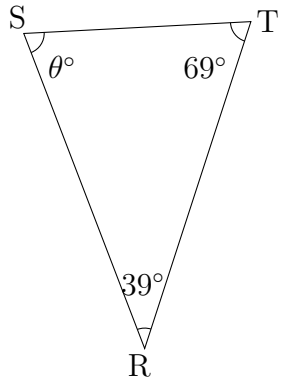



$\theta^\circ = 180^\circ - (\angle\ldots\ldots + \angle\ldots\ldots)$
$= 180^\circ - (\ldots\ldots^\circ + \ldots\ldots^\circ)$
$= 180^\circ - \ldots\ldots^\circ$
$= \ldots\ldots^\circ$

**Name:** _____ **Date:** _____

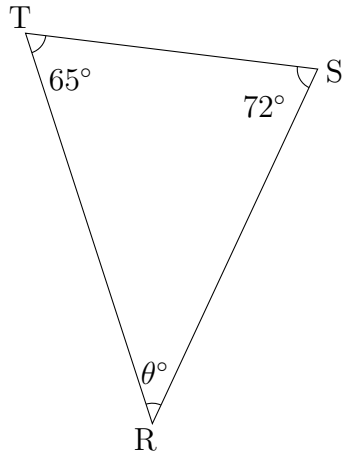
Angles in a Triangle: Answers

(1)



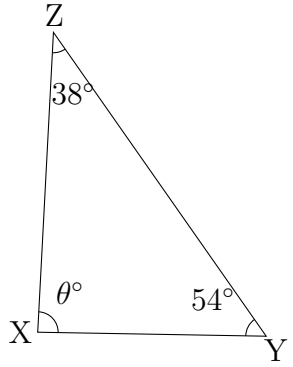

$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle \mathrm{R} + \angle \mathrm{T}) \\ &= 180^\circ - (39^\circ + 69^\circ) \\ &= 180^\circ - 108^\circ \\ &= 72^\circ\end{aligned}$$

(2)



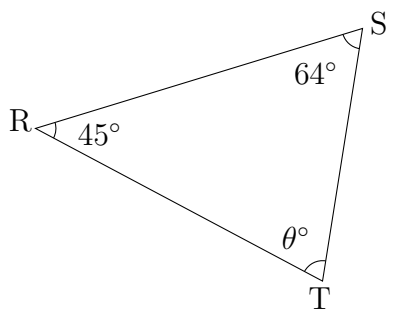

$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle \mathrm{S} + \angle \mathrm{T}) \\ &= 180^\circ - (72^\circ + 65^\circ) \\ &= 180^\circ - 137^\circ \\ &= 43^\circ\end{aligned}$$

(3)




$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle \mathrm{Y} + \angle \mathrm{Z}) \\ &= 180^\circ - (54^\circ + 38^\circ) \\ &= 180^\circ - 92^\circ \\ &= 88^\circ\end{aligned}$$

(4)




$$\begin{aligned}\theta^\circ &= 180^\circ - (\angle \mathrm{S} + \angle \mathrm{R}) \\ &= 180^\circ - (64^\circ + 45^\circ) \\ &= 180^\circ - 109^\circ \\ &= 71^\circ\end{aligned}$$