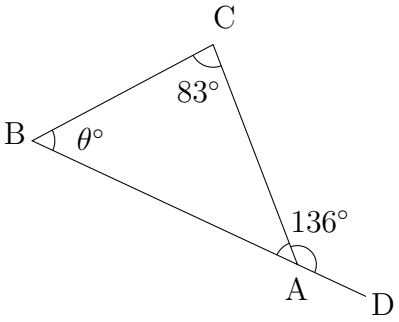
Name: _____ **Date:** _____

External Angle to a Triangle: Questions

(1)

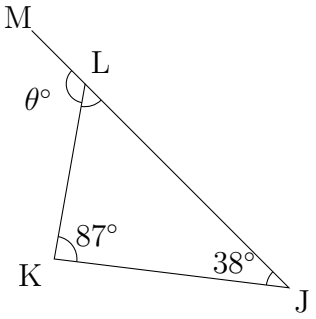


$\angle B = \angle\ldots\ldots - \angle\ldots\ldots$

$= \ldots\ldots^\circ - \ldots\ldots^\circ$

$= \ldots\ldots^\circ$

(2)

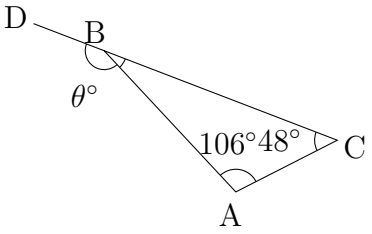


$\angle MLK = \angle\ldots\ldots + \angle\ldots\ldots$

$= \ldots\ldots^\circ + \ldots\ldots^\circ$

$= \ldots\ldots^\circ$

(3)

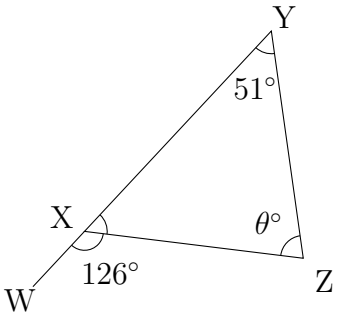


$\angle DBA = \angle\ldots\ldots + \angle\ldots\ldots$

$= \ldots\ldots^\circ + \ldots\ldots^\circ$

$= \ldots\ldots^\circ$

(4)



$\angle Z = \angle\ldots\ldots - \angle\ldots\ldots$

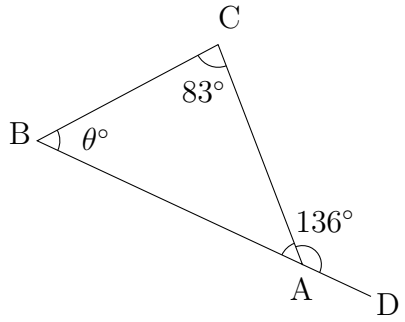
$= \ldots\ldots^\circ - \ldots\ldots^\circ$

$= \ldots\ldots^\circ$

Name: _____ **Date:** _____

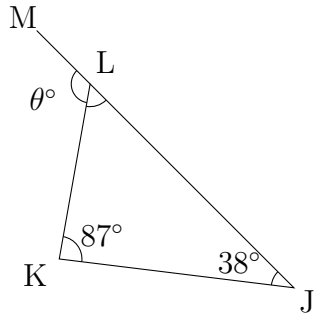
External Angle to a Triangle: Answers

(1)



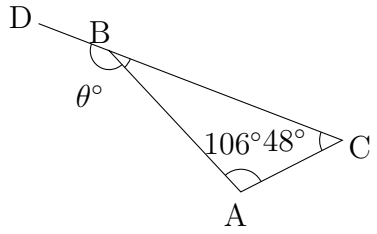
$$\begin{aligned}\angle B &= \angle DAC - \angle C \\ &= 136^\circ - 83^\circ \\ &= 53^\circ\end{aligned}$$

(2)



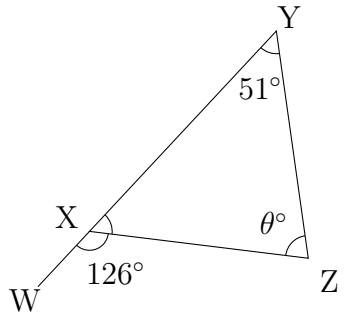
$$\begin{aligned}\angle MLK &= \angle J + \angle K \\ &= 38^\circ + 87^\circ \\ &= 125^\circ\end{aligned}$$

(3)



$$\begin{aligned}\angle DBA &= \angle C + \angle A \\ &= 48^\circ + 106^\circ \\ &= 154^\circ\end{aligned}$$

(4)



$$\begin{aligned}\angle Z &= \angle WXZ - \angle Y \\ &= 126^\circ - 51^\circ \\ &= 75^\circ\end{aligned}$$