

Explore Triangle Congruence Worksheets (AAS)

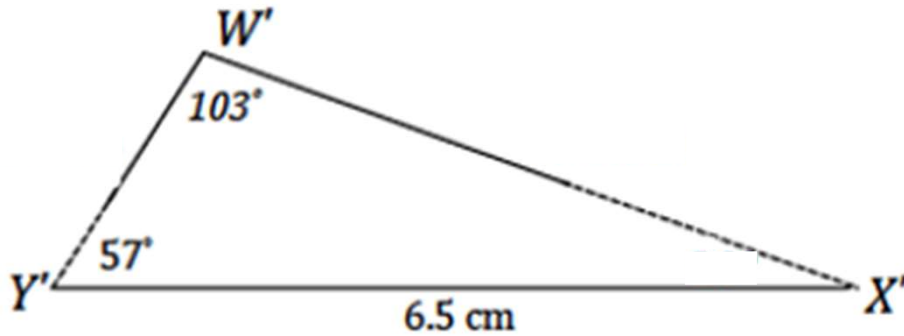
In $\triangle WXY$, $\angle Y = 57^\circ$ and $\angle W = 103^\circ$. $YX = 6.5 \text{ cm}$. Draw $\triangle W'X'Y'$ under the same condition as $\triangle WXY$.

What can you conclude about $\triangle WXY$ and $\triangle W'X'Y'$?

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$\triangle WXY$ and $\triangle W'X'Y'$ are identical triangles by the two angles and the side opposite a given angle condition. Since both triangles are drawn under the same condition, and the two angles and the side opposite a given angle condition determines a unique triangle, both triangles determine the same unique triangle. Therefore, they are identical.

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