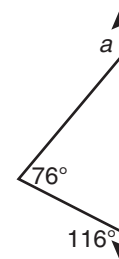




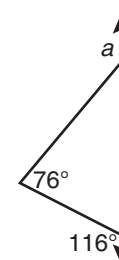
Practice Run

Determine the measure of $\angle a$ in the following diagram.
Explain your reasoning.

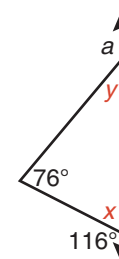


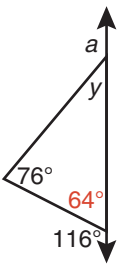
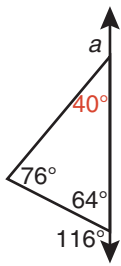
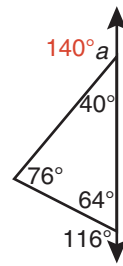
Compare your answers.

Determine the measure of $\angle a$ in the following diagram.
Explain your reasoning.



Label the unknowns in the diagram provided.



Angles forming a line sum to 180°	Angles in a triangle sum to 180°	Angles forming a line sum to 180°
 $116^\circ + x = 180^\circ$ $x = 180^\circ - 116^\circ$ $x = 64^\circ$	 $64^\circ + 76^\circ + y = 180^\circ$ $y = 180^\circ - 64^\circ - 76^\circ$ $y = 40^\circ$	 $40^\circ + a = 180^\circ$ $a = 180^\circ - 40^\circ$ $a = 140^\circ$