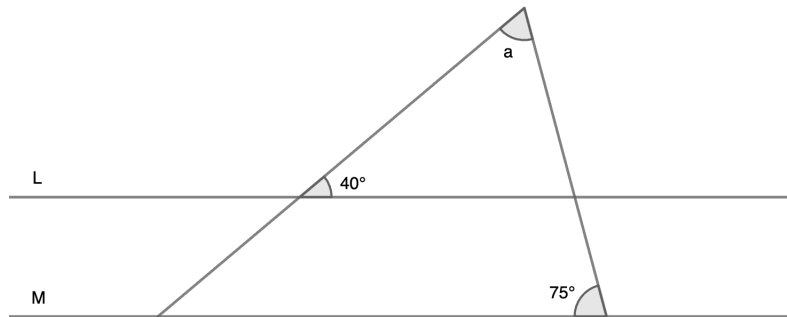


In the figure below, $L \parallel M$. Find the measure of $\angle a$.¹



¹Akita Prefecture

Solution

Answer : 65°

Proof: Since corresponding angles are congruent, we can set up the equation: $\angle a + 40^\circ + 75^\circ = 180^\circ$.
Solving for a , we get $\angle \mathbf{a} = \mathbf{65^\circ}$.