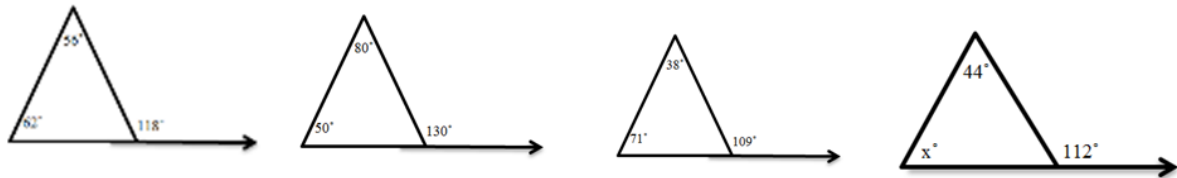## Possible Solutions

What is the value of x in the last image?

Not Drawn to Scale

- Look at the first three figures to determine the pattern. Think about how the angle measures are related. After you determine the pattern, set up the equation for the last figure and solve the equation.
- In the first three figures the value of the exterior angle (angle outside of the triangle) is equal to the sum of the two angles inside the triangle. Use this pattern to set up the equation for the last figure.

$$44 + x = 112$$

$$x = 112 - 44$$

$$x = 68$$

The solution is x = 68°.