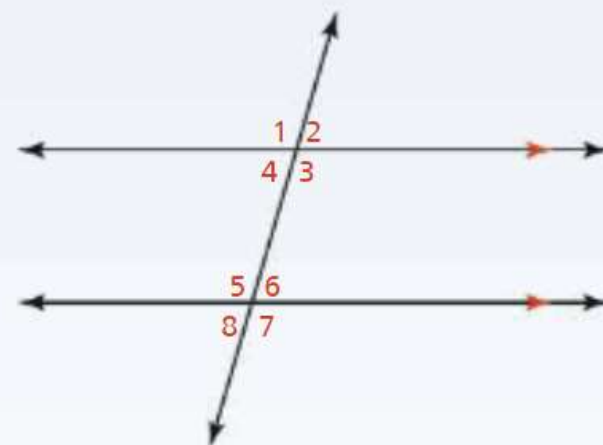




Try It!

Which angles are congruent to $\angle 8$?

Which angles are supplementary to $\angle 8$?



EXAMPLE 2



Find Unknown Angle Measures

In the figure, $a \parallel b$. What are the measures of $\angle 4$ and $\angle 5$? Explain.

Use what you know about the angles created when parallel lines are cut by a transversal.

$$m\angle 4 = 99^\circ$$

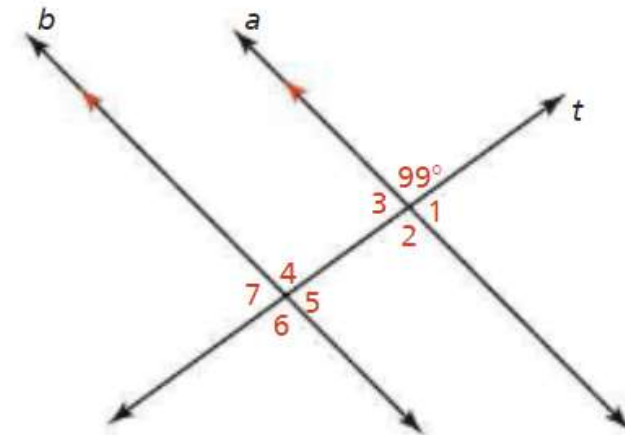
The 99° angle and $\angle 4$ are corresponding angles.

$$m\angle 4 + m\angle 5 = 180^\circ$$

$\angle 4$ and $\angle 5$ are supplementary angles.

$$m\angle 5 = 180^\circ - 99^\circ$$

$$m\angle 5 = 81^\circ$$



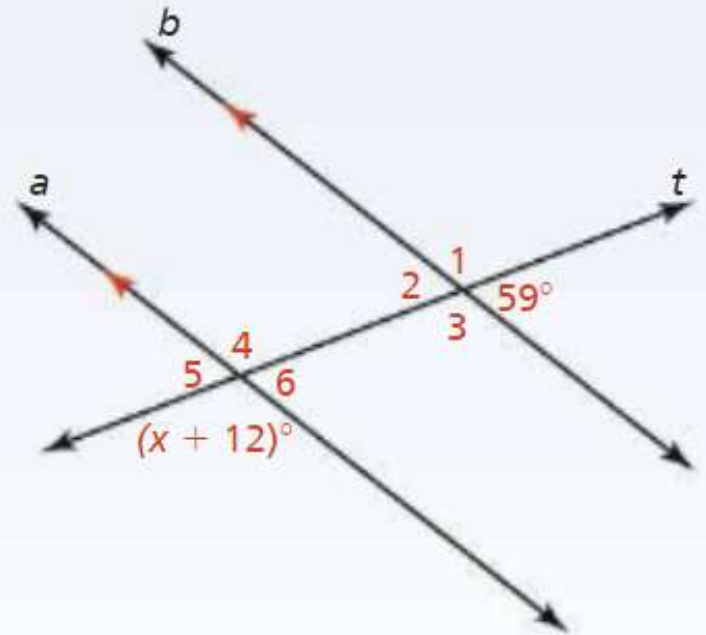
Try It!

What are the measures of $\angle 7$ and $\angle 2$? Explain.



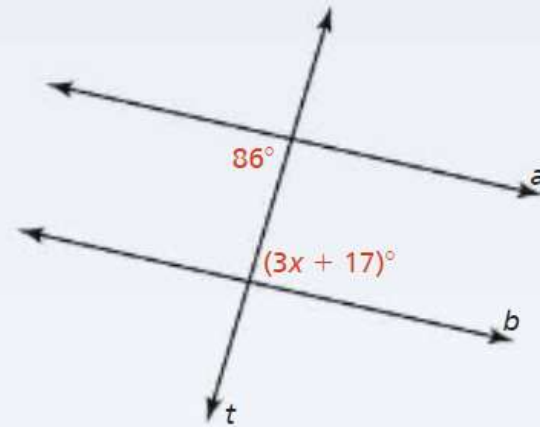
Try It!

In the figure, $a \parallel b$. What is the value of x ?



 **Try It!**

a. What must x equal if $a \parallel b$? Explain.



b. What must x equal if $g \parallel h$? Explain.

