



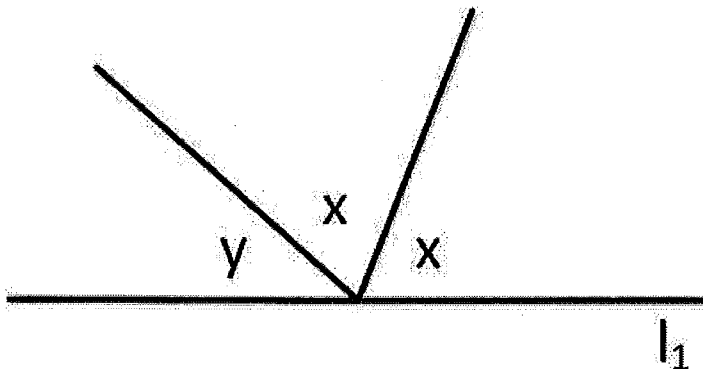




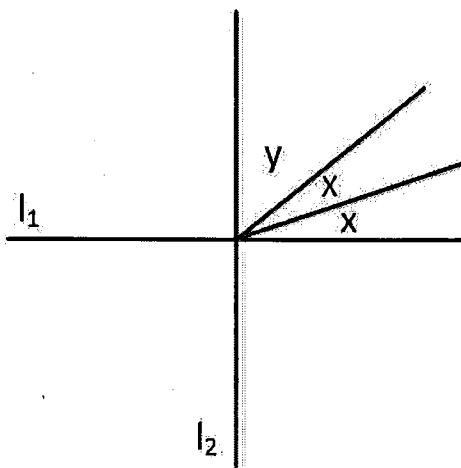
4. A transversal intersects two parallel lines. What will be the measure of an angle corresponding to an angle of  $108^\circ$ ?
5. Two interior angles lie on the same side of a transversal that intersects two parallel lines. If one angle is  $109^\circ$ , what will the other angle be? Explain your reasoning.

**Problem**

1. In the figure below, if angle  $y$  is  $41^\circ$ , what must the value of  $x$  be to make  $l_1$  a straight angle?



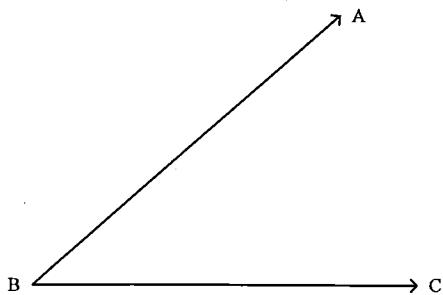
2. In the figure below, if angle  $y$  is  $53^\circ$ , what must the value of  $x$  be to make  $l_1$  and  $l_2$  perpendicular?



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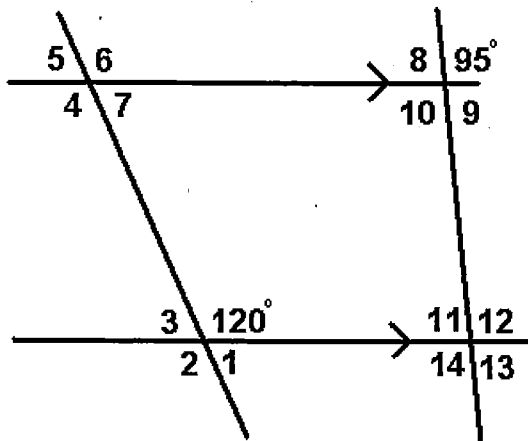
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3. Bisect  $\angle ABC$  using a straight edge and compass.



4. State at least one requirement for two lines intersected by a transversal to be parallel.

5. Identify the measures of each of the angles indicated.



Solving Angle Measures	
Angle Measure	Reason
$\angle 1 =$	
$\angle 2 =$	
$\angle 3 =$	
$\angle 4 =$	
$\angle 5 =$	
$\angle 6 =$	
$\angle 7 =$	
$\angle 8 =$	
$\angle 9 =$	
$\angle 10 =$	
$\angle 11 =$	
$\angle 12 =$	
$\angle 13 =$	
$\angle 14 =$	