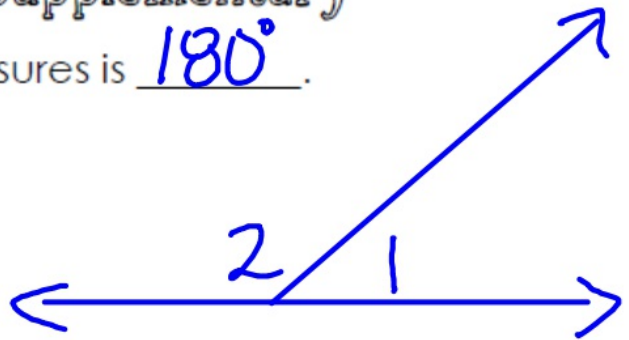
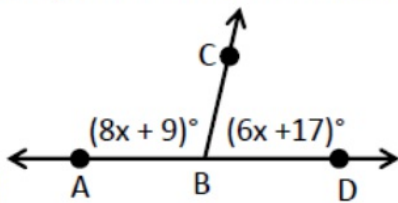


Two or more angles are **Supplementary**
if the sum of their measures is 180° .

$$m\angle 1 + m\angle 2 = 180^\circ$$



Example 2: Find $m\angle ABC$ and $m\angle CBD$.



$$\textcircled{1} \angle ABC + \angle CBD = 180$$

$$\textcircled{2} 8x + 9 + 6x + 17 = 180$$

$$\textcircled{3} 14x + 26 = 180$$

$$\textcircled{4} \frac{14x}{14} = \frac{154}{14}$$

$$\textcircled{5} x = 11$$

$$\textcircled{6} \angle ABC = 8(11) + 9 = 97^\circ$$

$$\angle CBD = 6(11) + 17 = 83^\circ$$

$$97 + 83 = 180 \checkmark$$

$\textcircled{1}$ Supplementary
 $\textcircled{2}$ Subst. Angles

$\textcircled{3}$ CLT

$\textcircled{4}$ Subtraction

$\textcircled{5}$ Division

$\textcircled{6}$ Substitution