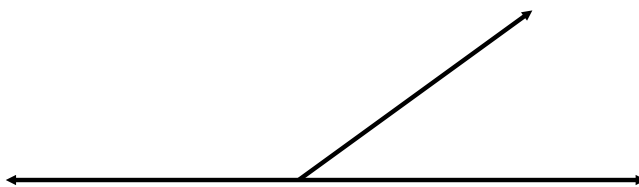
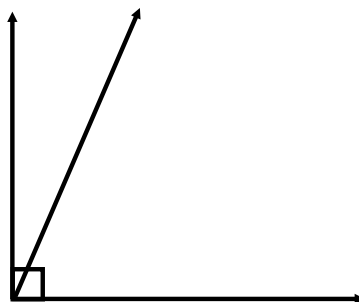


## Supplementary

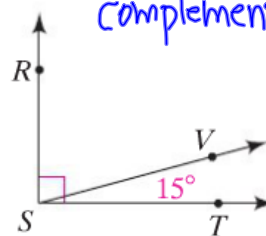
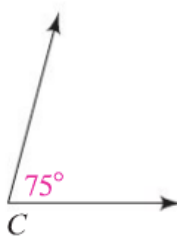
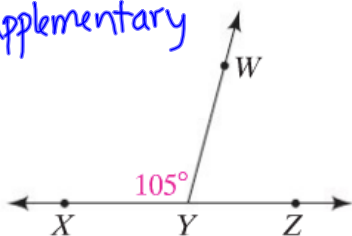


- Supplementary - **two angles whose sum is  $180^\circ$**

## Complementary



- Complementary - **two angles whose sum is  $90^\circ$**   
 *$\angle WYX$  and  $\angle C$  are Supplementary*       *$\angle C$  and  $\angle VST$  are complementary*



## Finding Supplementary Angles

Suppose  $m\angle BCD = 121^\circ$ . Find the measure of its supplement.

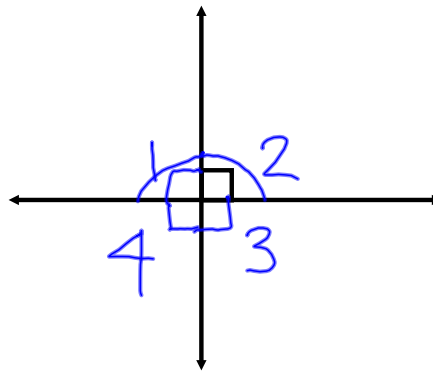
$$m\angle BCD = 121^\circ$$

$$\begin{array}{r} 121 + a = 180 \\ -121 \quad -121 \\ \hline a = 59 \end{array}$$

The supplement is  $59^\circ$

## Perpendicular Lines

$\angle 2$  and  $\angle 4$  are vertical  
 $\angle 2$  and  $\angle 1$  are  
 supplementary  
 $\angle 1$  and  $\angle 3$  are vertical

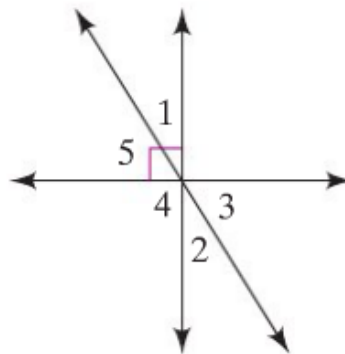


- **Perpendicular Lines** - **two lines that intersect to form a right angle**

## Finding Angle Measures

In the diagram,  $m\angle 5 = 58^\circ$ . Find the measures of  $\angle 1$  and  $\angle 2$ .

$$\begin{array}{r}
 m\angle 5 = 58^\circ \\
 58 + m\angle 1 = 90 \\
 \underline{-58} \qquad \qquad \underline{-58} \\
 m\angle 1 = 32^\circ \\
 m\angle 2 = 32^\circ \\
 m\angle 3 = 58^\circ \\
 m\angle 4 = 90^\circ
 \end{array}$$



# Assignment

## 8th Grade Lesson 7-1b

Pgs. 216-217 #8-12 even,  
13-15 all, 18-26 even, 28-30 all