

## Warm Up

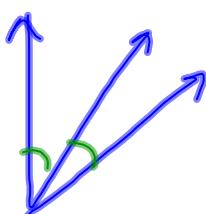
1. Solve for  $x$ :  $2x - 7 + 5x + 1 = 57$
  
2. Solve for  $x$ :  $3x + 4 = 7x - 20$
  
3. What number can be added to 42 to give a sum of 90?  
What number can be added to 42 to give a sum of 180?

## 1-5 Describing Angle Pair Relationships

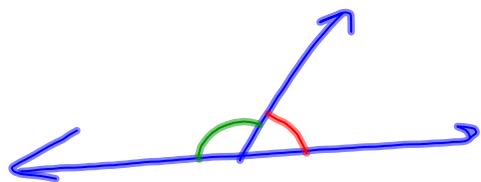
Complementary Angles- *Angles that add to  $90^\circ$*

Supplementary Angles- *Angles that add to  $180^\circ$*

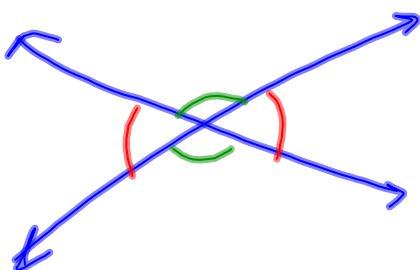
Adjacent Angles- *next to*



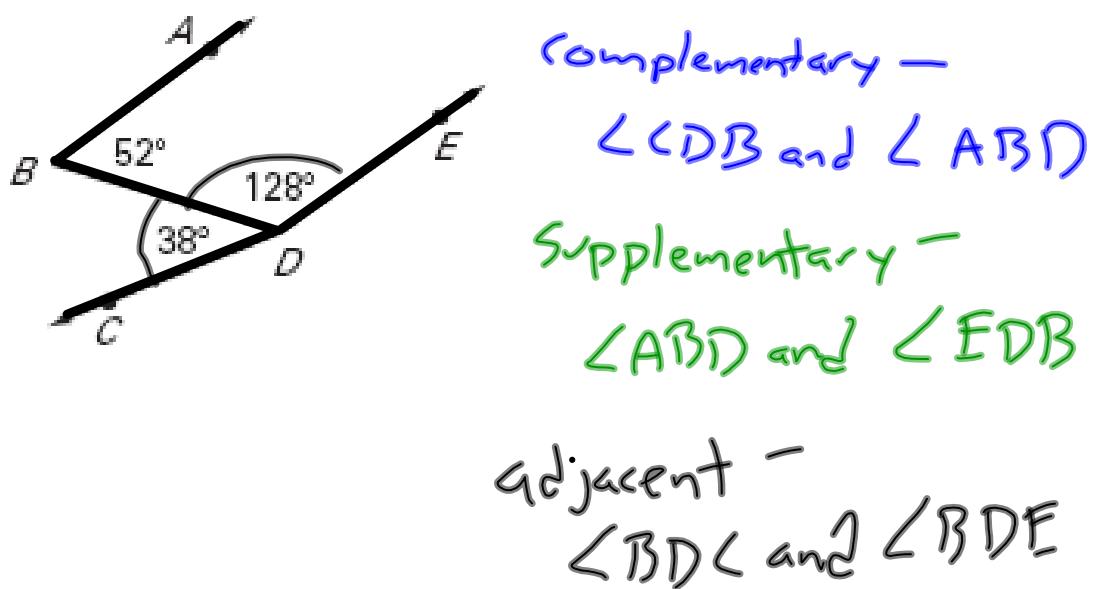
Linear Pair



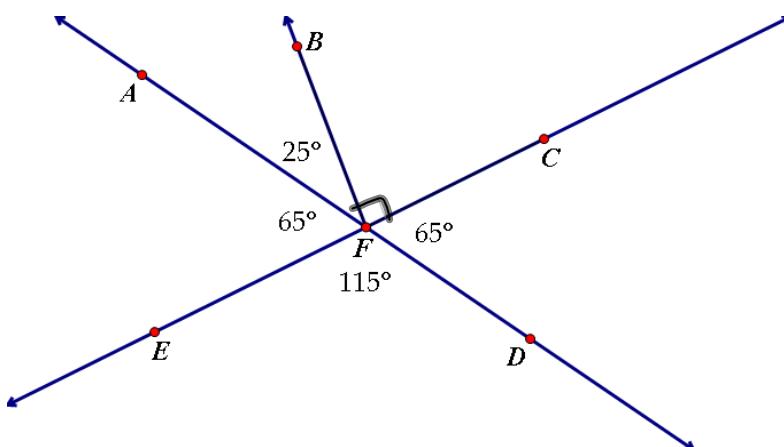
Vertical Angles



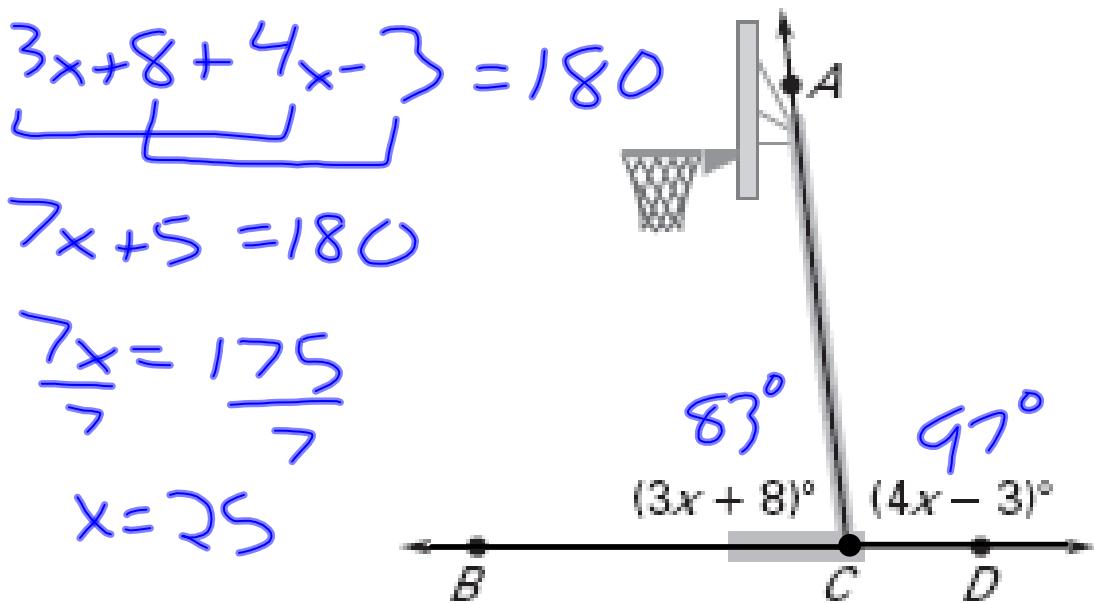
Ex.1 In the figure, name a pair of complementary angles, a pair of supplementary angles, and a pair of adjacent angles.



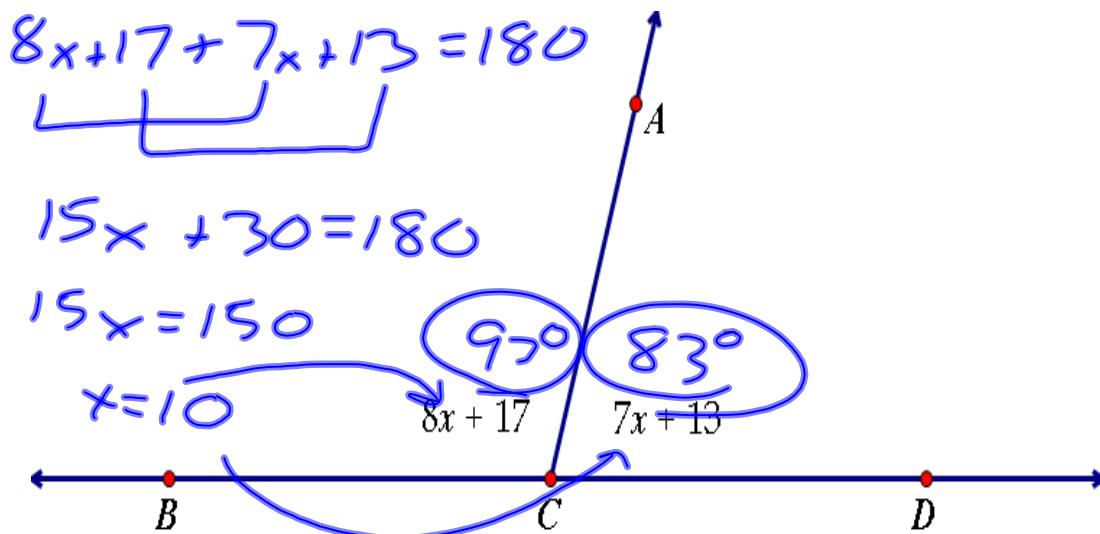
Ex.2 In the figure, name a pair of complementary angles, a pair of supplementary angles, and a pair of adjacent angles.



Ex. 3 The basketball pole forms a pair of supplementary angles with the ground. Find the measure of angles  $BCA$  and  $DCA$

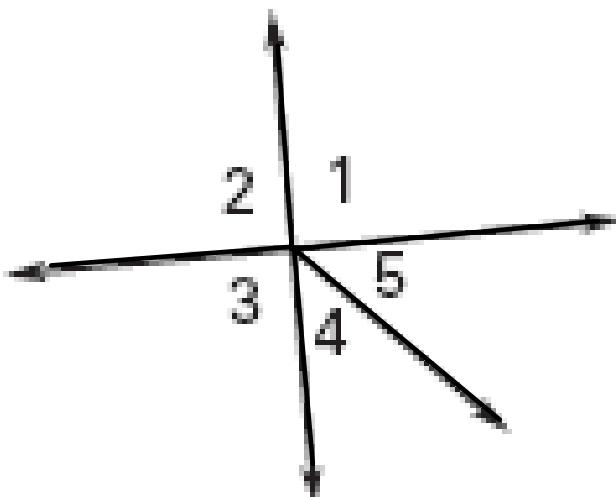


Ex. 4 Find the measure of angles  $BCA$  and  $DCA$

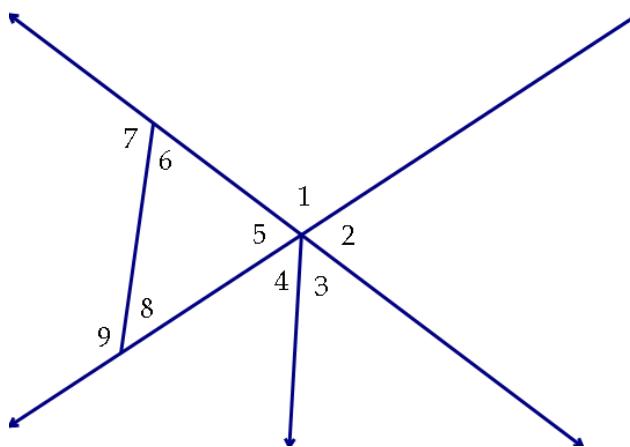


Ex. 5 Identify all of the linear pairs and all of the vertical angles in the figure.

linear pairs -  
 $\angle 1$  and  $\angle 2$   
 $\angle 2$  and  $\angle 3$   
vertical  $\angle$ 's -  
 $\angle 3$  and  $\angle 1$



Ex. 6 Identify all of the linear pairs and all of the vertical angles in the figure.



Ex. 7 Find the values of  $x$  and  $y$ .

