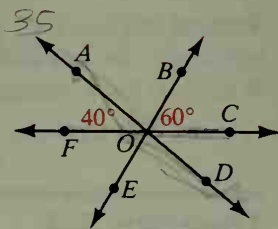


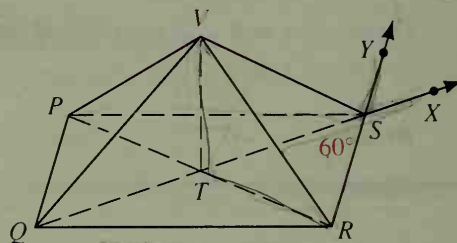
Complete.

10.  $\angle AOB \cong$  ?  $100^\circ$       11.  $\angle AOE \cong$  ?  
 12.  $\angle FOB \cong$  ?  $80^\circ$       13.  $\angle COA \cong$  ?  $2^\circ$   
 14.  $m\angle FOE =$  ?  $60^\circ$       15.  $m\angle COD =$  ?  
 16.  $m\angle DOB =$  ?  $140^\circ$       17.  $m\angle AOB =$  ?  $2^\circ$   
 18.  $m\angle COE =$  ?  $120^\circ$       19.  $m\angle FOB =$  ?  $85^\circ$



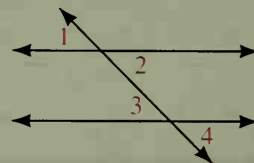
20. The four angles of figure PQRS are right angles.  $\angle VTR$  is a right angle.  $m\angle QSR = 60^\circ$ . Find the measures.

- a.  $m\angle VTP$   $30^\circ$       b.  $m\angle XSY$   $60^\circ$   
 c.  $m\angle RSX$   $120^\circ$       c.  $m\angle PSY$   $90^\circ$



21. Given:  $\angle 2 \cong \angle 3$

- a. What can you deduce?  
 b. Explain how you would prove your conclusion.



## Written Exercises

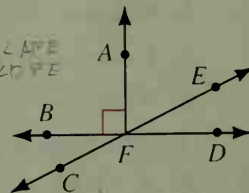
Find the measures of a complement and a supplement of  $\angle K$ .

- A 1.  $m\angle K' = 20$       2.  $m\angle K = 72\frac{1}{2}$       3.  $m\angle K = x$       4.  $m\angle K = 2y$

5. Two complementary angles are congruent. Find their measures.  
 6. Two supplementary angles are congruent. Find their measures.

In the diagram,  $\angle AFB$  is a right angle. Name the figures described.

7. Another right angle  $\angle AFD$       8. Two complementary angles  $\angle EFB$  and  $\angle BFC$   
 9. Two congruent supplementary angles  $\angle AFB$  and  $\angle BFD$       10. Two noncongruent supplementary angles  $\angle AFE$  and  $\angle EFD$   
 11. Two acute vertical angles  $\angle CFB$  and  $\angle BFE$       12. Two obtuse vertical angles  $\angle CFE$  and  $\angle BFD$



In the diagram,  $\overrightarrow{OT}$  bisects  $\angle SOU$ ,  $m\angle UOV = 35^\circ$ , and  $m\angle YOW = 120^\circ$ . Find the measure of each angle.

13.  $m\angle ZOY$       14.  $m\angle ZOW$   $155^\circ$   
 15.  $m\angle VOW$       16.  $m\angle SOU$   $120^\circ$   
 17.  $m\angle TOU$       18.  $m\angle ZOT$   $95^\circ$

