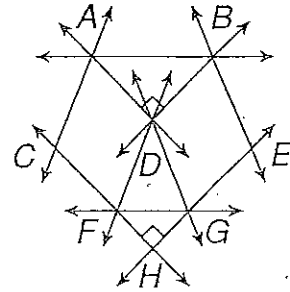


**LESSON** **8-3** **Practice C**  
**Angle Relationships**

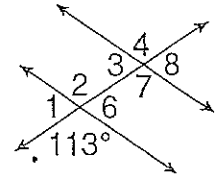
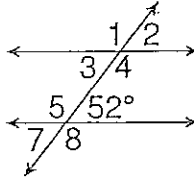
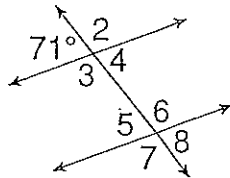
Tell whether the lines appear parallel, perpendicular or skew.

1.  $\overleftrightarrow{DF}$  and  $\overleftrightarrow{DG}$
2.  $\overleftrightarrow{AD}$  and  $\overleftrightarrow{BD}$
3.  $\overleftrightarrow{AD}$  and  $\overleftrightarrow{GE}$
4.  $\overleftrightarrow{DG}$  and  $\overleftrightarrow{BE}$
5.  $\overleftrightarrow{AB}$  and  $\overleftrightarrow{GH}$
6.  $\overleftrightarrow{FH}$  and  $\overleftrightarrow{GH}$

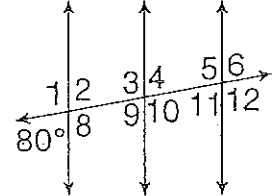
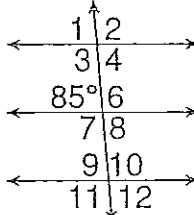
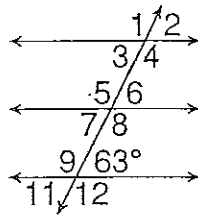


Assume that lines that look parallel are parallel.  
 Find the measure of each angle.

7.  $\angle 4$  and  $\angle 6$
8.  $\angle 1$  and  $\angle 7$
9.  $\angle 3$  and  $\angle 8$



10.  $\angle 2$ ,  $\angle 5$ , and  $\angle 12$
11.  $\angle 1$ ,  $\angle 8$ , and  $\angle 10$
12.  $\angle 3$ ,  $\angle 6$ , and  $\angle 11$



13. A pair of supplementary angles is congruent. What is the measure of each angle?

**LESSON** **8-3** **Problem Solving**  
**Angle Relationships**

Write the correct answer.

In the drawing of the chair, the seat is parallel to the floor.

1. What is the measure of  $\angle 1$ ?

\_\_\_\_\_

2. What is the measure of  $\angle 2$ ?

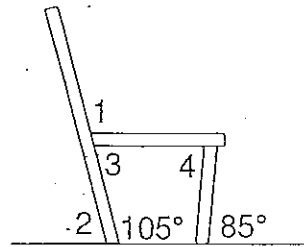
\_\_\_\_\_

3. What is the measure of  $\angle 3$ ?

\_\_\_\_\_

4. What is the measure of  $\angle 4$ ?

\_\_\_\_\_



Choose the letter for the best answer.

The map shows the area around Falcon Park. Birch Street and Orchard Street are parallel to each other.

5. If  $\angle 4$  measures  $112^\circ$ , what is the measure of  $\angle 6$ ?

- A**  $112^\circ$                       **C**  $68^\circ$   
**B**  $22^\circ$                          **D**  $108^\circ$

6. Which two angles are vertical angles?

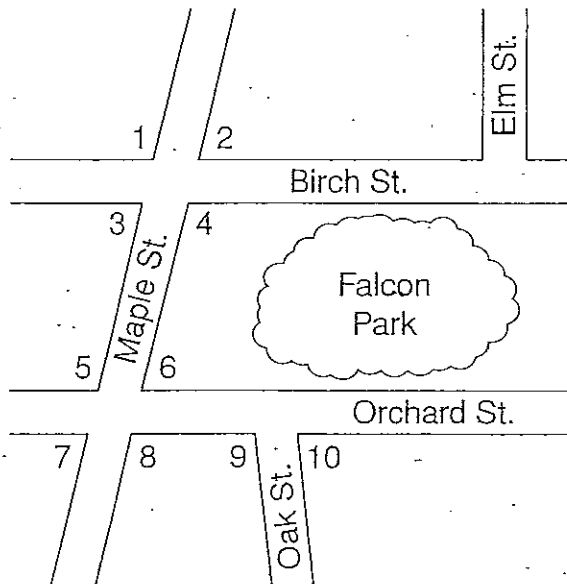
- F**  $\angle 2$  and  $\angle 3$                 **H**  $\angle 2$  and  $\angle 4$   
**G**  $\angle 2$  and  $\angle 6$                 **J**  $\angle 2$  and  $\angle 5$

7. If  $\angle 10$  measures  $87^\circ$ , what is the measure of  $\angle 9$ ?

- A**  $77^\circ$                          **C**  $87^\circ$   
**B**  $93^\circ$                          **D**  $103^\circ$

8. Which is a transversal to Birch and Orchard streets?

- E** Maple Street                **G** Oak Street  
**F** Elm Street                    **H** Falcon Park



9. If  $\angle 4$  measures  $112^\circ$ , what is the measure of  $\angle 1$ ?

- A**  $22^\circ$                          **G**  $108^\circ$   
**B**  $68^\circ$                          **D**  $112^\circ$