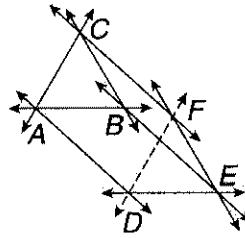


LESSON
8-3

Practice B
Line and Angle Relationships

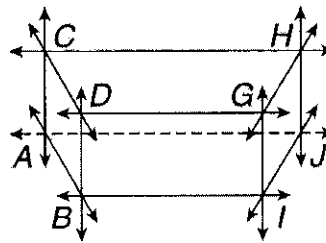
Tell whether the lines appear parallel, perpendicular, or skew.

1. \vec{AB} and \vec{DE} _____
2. \vec{EF} and \vec{CF} _____
3. \vec{AB} and \vec{AD} _____
4. \vec{BC} and \vec{DE} _____



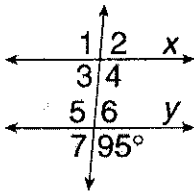
Tell whether the lines appear parallel, perpendicular, or skew.

5. \vec{BD} and \vec{DG} _____
6. \vec{AB} and \vec{BD} _____
7. \vec{DG} and \vec{IJ} _____
8. \vec{AB} and \vec{CD} _____

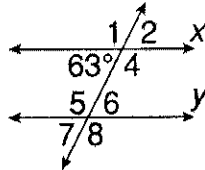


Line $x \parallel$ line y . Find the measure of each angle.

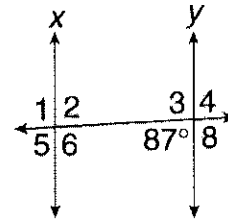
9. $\angle 1$ and $\angle 6$



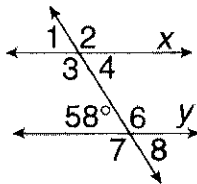
10. $\angle 4$ and $\angle 8$



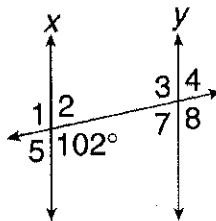
11. $\angle 4$ and $\angle 6$



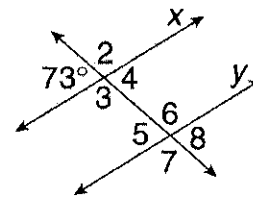
12. $\angle 2$ and $\angle 4$



13. $\angle 5$ and $\angle 7$



14. $\angle 7$ and $\angle 8$



LESSON
8-3

Problem Solving
Line and Angle Relationships

Write the correct answer.

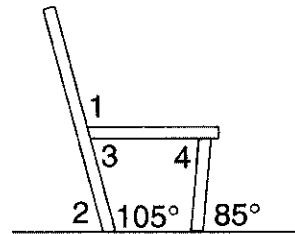
In the drawing of the chair, the seat is parallel to the floor.

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° , what is the measure of $\angle 6$?

- A 112° C 68°
B 22° D 108°

6. Which two angles are vertical angles?

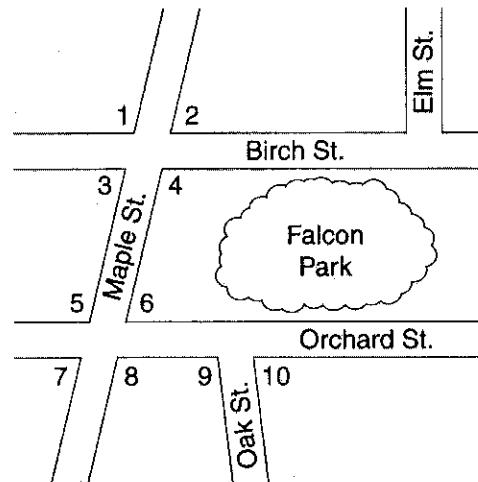
- F $\angle 2$ and $\angle 3$ H $\angle 2$ and $\angle 4$
G $\angle 2$ and $\angle 6$ J $\angle 2$ and $\angle 5$

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

- A 77° C 87°
B 93° D 103°

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

- F Maple Street H Oak Street
G Elm Street J Falcon Park



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

- A 22° C 108°
B 68° D 112°