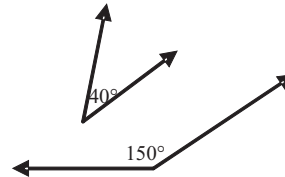**Module 8**   **Points, Lines, Angles, and Triangles**
Lesson 3   **Angle Relationships and Parallel Lines**

Write C if the angles are complementary, S if they are supplementary, or N if they are neither.
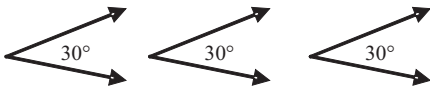
1.

2.

40°

150°

3.

30°   30°   30°

4.

Use the diagram at right to answer the following:

5. Which angle is vertical to ∠6?

6. Which angle is vertical to ∠2?

7. Which angle is vertical to ∠4?
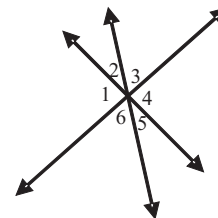
8. Suppose $m\angle 1 = 85°$ and $m\angle 2 = 35°$. Find the following:

    a. $m\angle 3$ **b.** $m\angle 4$

    c. $m\angle 5$ **d.** $m\angle 6$

Identify the special angle pair name for each pair below.
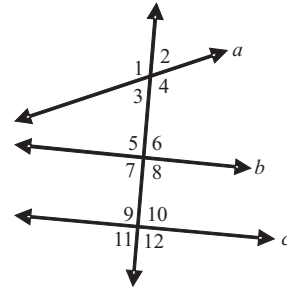**Write *none* if the pair has no special name.**

9. ∠2 and ∠7

10. ∠8 and ∠9

11. ∠4 and ∠8

12. ∠4 and ∠11

13. ∠1 and ∠9

$b \parallel c$ **and** $m\angle 7 = 92°$
Find the following:

14. $m\angle 10$

15. $m\angle 11$

16. $m\angle 12$