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

Additional Practice 8.3

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

1.

S

2.

40°

150°   **N**

3.

30°   30°   30°
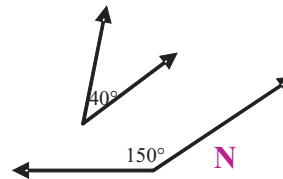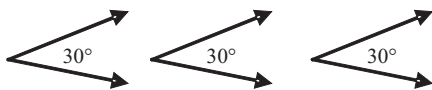
N

4.

C

Use the diagram at right to answer the following:

5.   Which angle is vertical to ∠6?   **∠3**

6.   Which angle is vertical to ∠2?   **∠5**

7.   Which angle is vertical to ∠4?   **∠1**

8.   Suppose $m\angle 1 = 85°$ and $m\angle 2 = 35°$. Find the following:

   a. $m\angle 3$ **60°**

   b. $m\angle 4$ **85°**

   c. $m\angle 5$ **35°**

   d. $m\angle 6$ **60°**
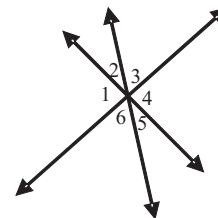
**Identify the special angle pair name for each pair below.
Write *none* if the pair has no special name.**

9. ∠2 and ∠7
   Alternate exterior

10. ∠8 and ∠9
    Alternate interior

11. ∠4 and ∠8
    Corresponding

12. ∠4 and ∠11
    None

13. ∠1 and ∠9
    Corresponding

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

14. $m\angle 10$
    92°

15. $m\angle 11$
    92°

16. $m\angle 12$
    88°