

**119**

1 86**°**

**12.** **ALGEBRA** Angles *G* and *H* are supplementary and congruent. If ∠*G* and ∠*H* are alternate interior angles, what is the measure of each angle?

**11.** **ALGEBRA** Angles *A* and *B* are corresponding angles formed by two parallel lines cut by a transversal. If *m*∠*A* = 4*x* and *m*∠*B* = 3*x* + 7, find the value   
of *x*. Explain.

**Homework Practice**

***Lines***

**Course 3** • Two- and Three-Dimensional Geometry

*For more practice, go to* [www.connected.mcgraw-hill.com.](http://www.connected.mcgraw-hill.com)

**10.** Find the measure of ∠6. Explain your reasoning.

**9.** Find the measure of ∠4. Explain your reasoning.

6 7

**8.** Find the measure of ∠3. Explain your reasoning.

2 3

5 4

**Use the figure at the right for Exercises 7–10.**

**7.** Find the measure of ∠2. Explain your reasoning.

**6.** alternate exterior

**5.** alternate interior

**4.** corresponding

**3.** supplementary

**2.** complementary

9

10

8

7

5

*n*

6

4

3

2

*m* 1

**For Exercises 1–6, use the figure at the right. In**

**the figure, line *m* is parallel to line *n*.**

**List all pairs of each type of angle.**

**1.** vertical

PERIOD

DATE

NAME

