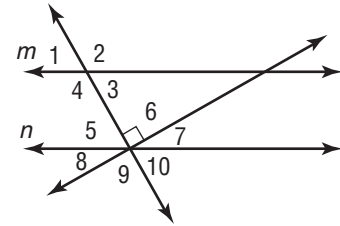# Lesson 1 Homework Practice

Lines

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

2. complementary

3. supplementary

4. corresponding

5. alternate interior
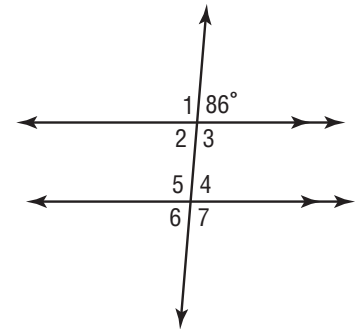
6. alternate exterior

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

7. Find the measure of $\angle 2$. Explain your reasoning.

8. Find the measure of $\angle 3$. Explain your reasoning.

9. Find the measure of $\angle 4$. Explain your reasoning.

10. Find the measure of $\angle 6$. Explain your reasoning.

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

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