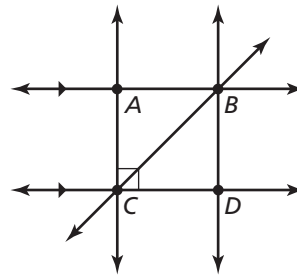


## 3.1 Practice A

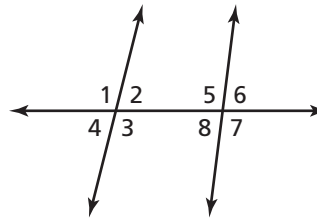
In Exercises 1–4, use the diagram.

1. Name a pair of parallel lines.
2. Name a pair of perpendicular lines.
3. Is  $\overline{AB} \parallel \overline{BC}$ ? Explain.
4. Is  $\overline{BD} \perp \overline{CD}$ ? Explain.



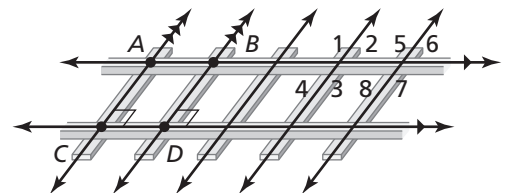
In Exercises 5–8, identify all pairs of angles of the given type.

5. alternate interior
6. alternate exterior
7. corresponding
8. consecutive interior



9. How many pairs of consecutive interior angles do you have when two horizontal lines are intersected by a transversal? How many pairs of consecutive interior angles do you have when three horizontal lines are intersected by a transversal? How many pairs of consecutive interior angles do you have when  $n$  horizontal lines are intersected by a transversal?
10. The given markings show how the railroad ties on a railroad track are related to each other.

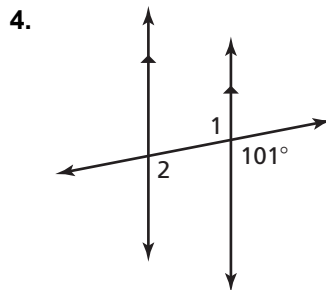
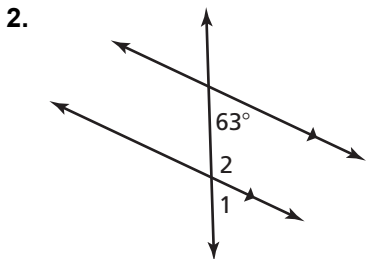
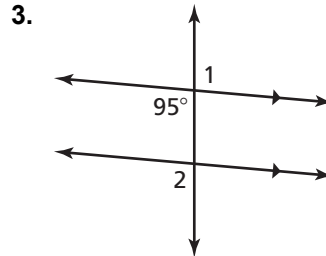
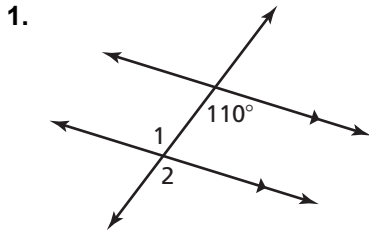
- a. Name two pairs of parallel lines.
- b. Name two pairs of perpendicular lines.
- c. Name all pairs of consecutive interior angles.
- d. Name all pairs of corresponding angles.
- e. Name all pairs of alternate interior angles.
- f. Name all pairs of alternate exterior angles.



**3.2** Notetaking with Vocabulary (continued)

**Extra Practice**

In Exercises 1–4, find  $m\angle 1$  and  $m\angle 2$ . Tell which theorem you use in each case.



In Exercises 5–8, find the value of  $x$ . Show your steps.

