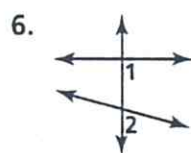
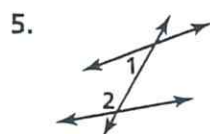
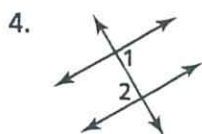
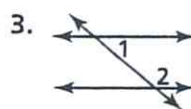
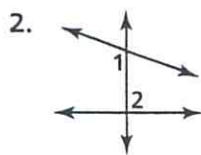
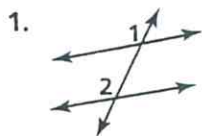


Practice 3-1

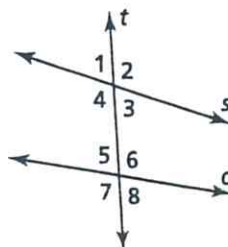
Properties of Parallel Lines

Classify each pair of angles as *alternate interior angles*, *same-side interior angles*, or *corresponding angles*.



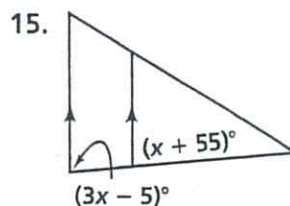
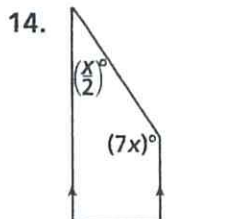
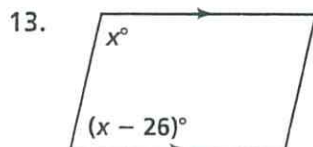
Use the figure on the right to answer Exercises 7-9.

7. Name all pairs of corresponding angles formed by the transversal t and lines s and c .
8. Name all pairs of alternate interior angles formed by the transversal t and lines s and c .
9. Name all pairs of same-side interior angles formed by the transversal t and lines s and c .



- Find $m\angle 1$ and then $m\angle 2$. Justify each answer. (Either solve an equation or write out the theorem or postulate that justifies your answer.)
- 10.
- 11.
- 12.

Algebra Find the value of x . Then find the measure of each angle.



16. **Developing Proof** Supply the missing reasons in this two-column proof.

Given: $a \parallel b$

Prove: $\angle 1 \cong \angle 3$

Statements

1. $a \parallel b$
2. $\angle 1 \cong \angle 2$
3. $\angle 2 \cong \angle 3$
4. $\angle 1 \cong \angle 3$

Reasons

1. Given
- a. ?
- b. ?
- c. ?

