## **Practice 3-1**

**Properties of Parallel Lines** 

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

1.



7



3



4.



5.

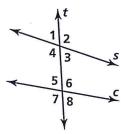


6



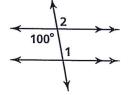
Use the figure on the right to answer Exercises 7-9.

- 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*.

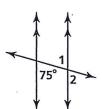


Find  $m \angle 1$  and then  $m \angle 2$ . Justify each answer.

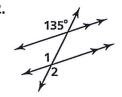
10.



11

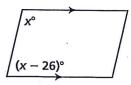


12.

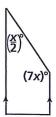


Algebra Find the value of x. Then find the measure of each angle.

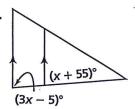
13.



14.



15.



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

Given:  $a \parallel b$ 

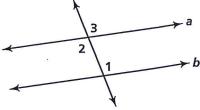
Prove:  $\angle 1 \cong \angle 3$ 

Statements



Reasons

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



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