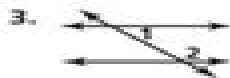


# Practice 3-1

## Properties of Parallel Lines

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

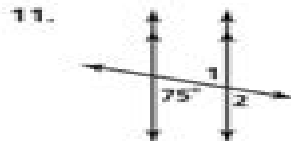


Use the figure on the right to answer Exercises 7–9.

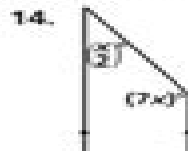
7. Name all pairs of corresponding angles formed by the transversal  $t$  and lines  $s$  and  $c$ .
8. Name all pairs of alternate interior angles formed by the transversal  $t$  and lines  $s$  and  $c$ .
9. Name all pairs of same-side interior angles formed by the transversal  $t$  and lines  $s$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



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



*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. ?



## Section 3 1 Properties Of Parallel Lines Answers

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