

Chapter
2**Quiz**
For use after Section 2.3

1. Identify the hypothesis and the conclusion. Then rewrite the conditional statement in if-then form.

All 26° angles are acute angles.

2. Write the negation of each statement.

a. The shirt is purple.

b. The ball is blue.

c. The tie is red.

3. Hypothesis p is true and conclusion q is false. Determine whether the statement $\sim q \rightarrow \sim p$ is *true* or *false*.

4. Write a definition of *conjecture*.

5. Find a counterexample to show that the conjecture is false.

All numbers ending in 3 are divisible by 3.

6. Sketch a diagram of a plane P containing \overleftrightarrow{AB} .

7. Describe the pattern. Then write the next number.

1, 2, 3, 6, 11, 20, 37, 68, 125, 230, 423, . . .

**Chapter
2**

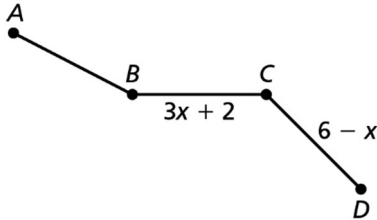
Quiz

For use after Section 2.6

1. Name the property of equality that the statement illustrates.

$$AB - 6 = AB - 6$$

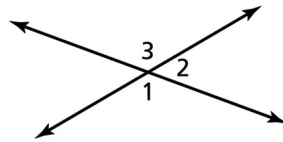
2. In the diagram, $\overline{AB} \cong \overline{CD}$ and $\overline{CD} \cong \overline{BC}$. Find BC .



3. Complete the two-column proof of the Vertical Angles Congruence Theorem.

Given $\angle 1$ and $\angle 3$ are vertical angles.

Prove $\angle 1 \cong \angle 3$



STATEMENTS	REASONS
1. $\angle 1$ and $\angle 3$ are vertical angles.	1. Given
2. $\angle 1$ and $\angle 2$ are a linear pair. $\angle 2$ and $\angle 3$ are a linear pair.	2.
3. $\angle 1$ and $\angle 2$ are supplementary. $\angle 2$ and $\angle 3$ are supplementary.	3.
4. $\angle 1 \cong \angle 3$	4. Congruent Supplements Theorem

4. Solve the formula $A = 2\pi rh + 2\pi r^2$ for h .