

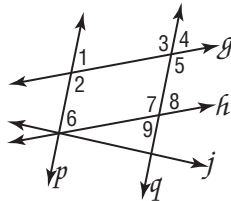
### 3 Chapter 3 Quiz 3

SCORE \_\_\_\_\_

(Lessons 3-4 and 3-5)

- Write an equation in point-slope form of the line with slope  $-\frac{1}{3}$  that contains (3, 8).
- Write an equation in slope-intercept form of the line with slope  $\frac{5}{3}$  and  $y$ -intercept of  $-2$ .
- Write an equation in slope-intercept form of the line that contains  $(-1, 7)$  and  $(3, -9)$ .
- A bottled water company charges \$8 per month for a water cooler and \$5 per bottle  $b$  of water. Write an equation that represents the total cost  $C$  for monthly water service.

Given the following information, determine which lines, if any, are parallel. State the postulate or theorem that justifies your answer.



- $\angle 1 \cong \angle 6$
- $\angle 2 \cong \angle 3$
- $\angle 4 \cong \angle 9$
- $m\angle 7 + m\angle 6 = 180$
- Given  $g \parallel h$  and  $m\angle 8 = 64$ , find  $m\angle 5$ .
- If  $m\angle 2 = 5x - 17$  and  $m\angle 7 = 3x + 35$ , find the value of  $x$  so that  $g \parallel h$ .

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### 3 Chapter 3 Quiz 4

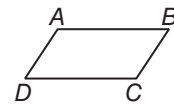
SCORE \_\_\_\_\_

(Lesson 3-6)

- Construct the segment that represents the distance from  $B$  to  $\overleftrightarrow{DC}$ .
- Line  $\ell$  contains points  $(1, -3)$  and  $(0, 4)$ . Point  $H$  has coordinates  $(-1, 3)$ . Find the distance from  $H$  to  $\ell$ .

Find the distance between each pair of parallel lines.

- $y = -8$   
 $y = 4$
- $y = -x - 9$   
 $y = -x - 7$
- What is the distance from the point  $A(-1, 5)$  to the line with equation  $4x - 5y = 12$ ?



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