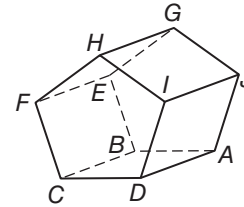## 3   Chapter 3 Mid-Chapter Test

(Lessons 3-1 through 3-3)

SCORE _____

Part I *Write the letter for the correct answer in the blank at the right of each question.*

For Questions 1 and 2, refer to the figure.

1. Which segment is skew to $\overline{IJ}$?

  A $\overline{GH}$ **C** $\overline{HI}$

  B $\overline{AJ}$ **D** $\overline{AB}$ **1.** _____

2. Which plane is parallel to plane *CDF*?

  F plane *BEF*   **H** plane *ABE*

  G plane *HIJ*   **J** plane *ABC*   **2.** _____

For Questions 3–5, refer to the figure. Identify the special name for each angle pair.
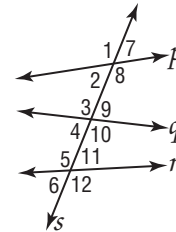
3. $\angle 2$ and $\angle 4$

  A alternate exterior   **C** corresponding

  B alternate interior   **D** consecutive interior   **3.** _____

4. $\angle 3$ and $\angle 12$

  F alternate exterior   **H** corresponding

  G alternate interior   **J** consecutive interior   **4.** _____

5. Given $p \parallel r$ and $m\angle 8 = 119$, find $m\angle 11$.
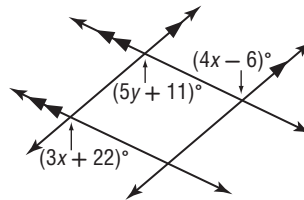
  A 29   **B** 61   **C** 119   **D** 151   **5.** _____

Part II

6. Find the value of the variables in the figure.

$(4x - 6)°$

$(5y + 11)°$

$(3x + 22)°$

       6. _____

For Questions 7 and 8, refer to the graph. Find the slope of each line.

$(2, 4)$

$(-2, 2)$

k

$(-4, -1)$ $(0, -2)$

m
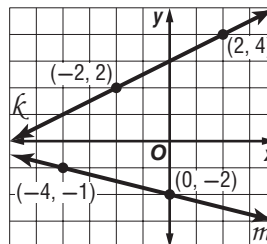
7. k **7.** _____

8. m **8.** _____

Determine whether $\overleftrightarrow{AB}$ and $\overleftrightarrow{DF}$ are *parallel*, *perpendicular*, or *neither*.

9. $A(-2, -11), B(6, 5), D(-7, -10), F(2, 8)$ **9.** _____

10. $A(-1, 6), B(2, -9), D(-10, -1), F(5, 2)$ **10.** _____

Assessment