

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

### Geometry Concepts Chapter 8 REVIEW

For Questions 1–3, refer to the figure at the right. Choose the correct answer by circling it.

1. Which is a pair of nonconsecutive angles of quadrilateral ABCD?

- |                              |                              |
|------------------------------|------------------------------|
| A. $\angle A$ and $\angle B$ | B. $\angle B$ and $\angle D$ |
| C. $\angle C$ and $\angle D$ | D. $\angle A$ and $\angle D$ |



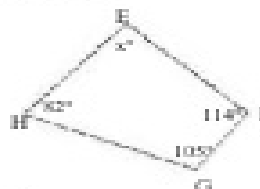
2. Which segment is a diagonal of quadrilateral ABCD?

- |                    |                    |
|--------------------|--------------------|
| A. $\overline{AB}$ | B. $\overline{BC}$ |
| C. $\overline{DA}$ | D. $\overline{AC}$ |

For Question 3, refer to the figure at the right. EFGH is a quadrilateral.

3. Find the value of  $x$ . **SHOW WORK!**

$x =$  \_\_\_\_\_



4. Find the measure of  $\angle G$  in quadrilateral EFGH if  $m\angle E = 75$ ,  $m\angle F = x + 6$ ,  $m\angle G = 2x - 4$ , and  $m\angle H = 145$ .

**SHOW WORK!**

**Draw a picture and label it HERE!**

$m\angle G =$  \_\_\_\_\_

For Questions 5–7, choose the correct answer by circling it.

5. One way to prove that a quadrilateral is a parallelogram is to show that

- |   |  |
|---|--|
| A. both pairs of opposite angles are congruent. | B. it has one pair of congruent sides. |
| C. the diagonals are congruent.                 | D. it has one pair of parallel sides.  |