

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 $\angle D$ |



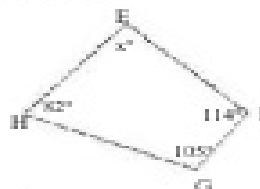
2. Which segment is a diagonal of quadrilateral ABCD?

- | | |
|--------------------|--------------------|
| 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 YOUR 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 YOUR 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. |