

# Chapter 6 Test, Form 3

SCORE \_\_\_\_\_

- The sum of the interior angles of an animal pen is  $900^\circ$ . How many sides does the pen have?
- A convex hexagon has interior angles with measures  $x^\circ$ ,  $(5x - 103)^\circ$ ,  $(2x + 60)^\circ$ ,  $(7x - 31)^\circ$ ,  $(6x - 6)^\circ$ , and  $(9x - 100)^\circ$ . Find the value of  $x$  and the measure of each angle.
- Find the measure of each exterior angle of a regular  $2x$ -gon.
- For parallelogram  $ABCD$ , find  $m\angle 1$ .



- $ABCD$  is a parallelogram with diagonals that intersect each other at  $E$ . If  $AE = x^2$  and  $EC = 6x - 8$ , find all possible values of  $AC$ .
- Determine whether the quadrilateral is a parallelogram. Justify your answer.



- For quadrilateral  $ABCD$ , the slope of  $\overline{AB}$  is  $\frac{2}{3}$  and the slope of  $\overline{BC}$  is  $-2$ . Find the slopes of  $\overline{CD}$  and  $\overline{DA}$  so that  $ABCD$  will be a parallelogram.
- In rectangle  $ABCD$ , find  $m\angle 1$ .



- The diagonals of rhombus  $ABCD$  intersect at  $E$ . If  $m\angle BAE = \frac{2}{3}(m\angle ABE)$ , find  $m\angle BCD$ .
- The diagonals of square  $ABCD$  intersect at  $E$ . If  $AE = 2$ , find the perimeter of  $ABCD$ .
- For isosceles trapezoid  $ABCD$ , find  $AE$ .



- Points  $G$  and  $H$  are midpoints of  $\overline{AF}$  and  $\overline{DE}$  in regular hexagon  $ABCDEF$ . If  $AB = 6$  find  $GH$ .



- The vertices of trapezoid  $ABCD$  are  $A(10, -1)$ ,  $B(6, 6)$ ,  $C(-2, 6)$ , and  $D(-8, -1)$ . Find the length of the median.

- \_\_\_\_\_ 7 \_\_\_\_\_
- \_\_\_\_\_ 30; 30, 47, 120, 179, 174, and 170 \_\_\_\_\_
- \_\_\_\_\_  $\frac{100}{x}$  \_\_\_\_\_
- \_\_\_\_\_ 65 \_\_\_\_\_
- \_\_\_\_\_ 8 or 32 \_\_\_\_\_
- \_\_\_\_\_ Yes; the diagonals bisect each other. \_\_\_\_\_
- \_\_\_\_\_ slope of  $\overline{CD} = \frac{2}{3}$ ; slope of  $\overline{DA} = -2$ . \_\_\_\_\_
- \_\_\_\_\_ 28 \_\_\_\_\_
- \_\_\_\_\_ 72 \_\_\_\_\_
- \_\_\_\_\_  $8\sqrt{2}$  \_\_\_\_\_
- \_\_\_\_\_ 4 \_\_\_\_\_
- \_\_\_\_\_ 9 \_\_\_\_\_
- \_\_\_\_\_ 13 \_\_\_\_\_

# Geometry Chapter 6 Test Form A

**Lei Huang**

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