

Chapter 6 Test, Form 3

SCORE _____

- The sum of the interior angles of an animal pen is 900° . How many sides does the pen have?
- A convex hexagon has interior angles with measures x° , $(5x - 103)^\circ$, $(2x + 60)^\circ$, $(7x - 31)^\circ$, $(6x - 6)^\circ$, 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 $m\angle BAE = \frac{11}{9}$ ($m\angle ABE$), 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
- $\frac{180}{x}$
- 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 Resource Answer Key

Kristin B. Swanson, Carol Turkington

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