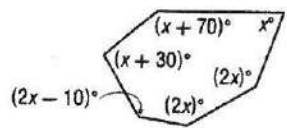
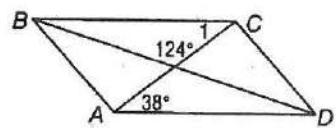
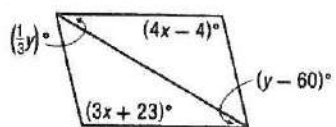



Write the letter for the correct answer in the blank at the right of each question.

1. Find the sum of the measures of the interior angles of a convex 50-gon.
 A 9000 B 8640 C 360 D 172.8 1. _____
 2. Find the value of x .
 F 16 H 50 G 34 J 70 2. _____
- 
3. Find the sum of the measures of the exterior angles of a convex 65-gon.
 A 5.54 B 90 C 180 D 360 3. _____
 4. Which of the following is a property of all parallelograms?
 F Each pair of opposite angles is congruent.
 G Only one pair of opposite sides is congruent.
 H Each pair of opposite angles is supplementary.
 J There are four right angles. 4. _____
 5. For parallelogram $ABCD$, find $m\angle 1$.
 A 19 C 52 B 38 D 56 5. _____
- 
6. $ABCD$ is a parallelogram with diagonals intersecting at E . If $AE = 4x - 8$ and $EC = 36$, find the value of x .
 F 7 G 11 H 15.5 J 38 6. _____
 7. Find the values of the values of x and y so that the quadrilateral is a parallelogram.
 A $x = 27, y = 90$ C $x = 13, y = 90$
 B $x = 27, y = 40$ D $x = 13, y = 40$ 7. _____
- 
8. Find the value of x so that the quadrilateral is a parallelogram.
 F $7\frac{1}{3}$ H 12 G 8 J 66 8. _____
- 
9. $ABCD$ is a parallelogram with $A(5, 4)$, $B(-1, -2)$, and $C(8, -2)$. Find the coordinates of D .
 A $D(-5, 4)$ B $D(8, 2)$ C $D(14, 4)$ D $D(4, 1)$ 9. _____
 10. $ABCD$ is a rectangle. If $AB = 7x - 6$ and $CD = 5x + 30$, find the value of x .
 F $5\frac{1}{3}$ G 12 H 13 J 18 10. _____
 11. Which of the following is true for all rectangles?
 A The diagonals are perpendicular.
 B The consecutive angles are supplementary.
 C The opposite sides are supplementary.
 D The opposite angles are complementary. 11. _____

6

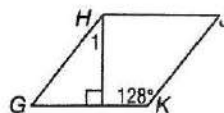
CHAPTER 6 TEST REVIEW

12. $ABCD$ is a rectangle with $B(-7, 3)$, $C(5, 3)$, and $D(5, -8)$. Find the coordinates of A .

F $A(-8, -7)$ G $A(-7, -8)$ H $A(-5, -3)$ J $A(-8, -5)$ 12. _____

13. For rhombus $GHJK$, find $m\angle 1$.

A 90 C 52
B 64 D 38



13. _____

14. The diagonals of square $ABCD$ intersect at E . If $AE = 3x - 4$ and $BD = 10x - 48$, find AC .

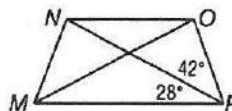
F 90 G 52 H 26 J 10 14. _____

15. $ABCD$ is an isosceles trapezoid with $A(0, -1)$, $B(-2, 3)$, and $D(6, -1)$. Find the coordinates of C .

A $C(6, 1)$ B $C(9, 4)$ C $C(2, 3)$ D $C(8, 3)$ 15. _____

16. For isosceles trapezoid $MNOP$, find $m\angle MNP$.

F 42 H 82
G 70 J 98



16. _____

17. The length of one base of a trapezoid is 19 meters and the length of the median is 23 meters. Find the length of the other base.

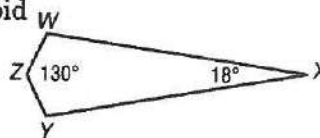
A 15 m B 21 m C 27 m D 42 m 17. _____

18. On a coordinate plane, the four corners of Ronald's garden are located at $(0, 2)$, $(4, 6)$, $(8, 2)$, and $(4, -2)$. Which of the following most accurately describes the shape of Ronald's garden?

F square H rhombus
G rectangle J trapezoid 18. _____

19. For kite $WXYZ$, find $m\angle W$.

A 106 C 212
B 148 D 360



19. _____

20. $ABCD$ is a parallelogram with coordinates $A(4, 2)$, $B(3, -1)$, $C(-1, -1)$, and $D(-1, 2)$. To prove that $ABCD$ is a rhombus, you would plot the parallelogram on a coordinate plane and then find which of the following?

F measures of the angles H slopes of the diagonals
G lengths of the diagonals J midpoints of the diagonals 20. _____

Bonus The sum of the measures of the interior angles of a convex polygon is ten times the sum of the measures of its exterior angles. Find the number of sides of the polygon.

B: _____